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NEWS 3 MAR 31 CAS REGISTRY enhanced with additional experimental
spectra
NEWS 4 MAR 31 CA/CAPLUS and CASREACT patent number format for U.S.
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NEWS 10 APR 28 IMSRESEARCH reloaded with enhancements
NEWS 11 MAY 30 INPAMFAMDB now available on STN for patent family
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NEWS 14 JUN 06 KOREAPAT updated with 41,000 documents
NEWS 15 JUN 13 USPATFULL and USPAT2 updated with 11-character
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NEWS 16 JUN 19 CAS REGISTRY includes selected substances from
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NEWS 17 JUN 25 CA/CAPLUS and USPAT databases updated with IPC
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NEWS 21 JUN 30 STN AnaVist enhanced with database content from EPFULL
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NEWS 23 JUL 28 EPFULL enhanced with additional legal status
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NEWS 24 JUL 28 IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS 25 JUL 28 STN Viewer performance improved
NEWS 26 AUG 01 INPADOCDB and INPAMFAMDB coverage enhanced

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:28:03 ON 09 AUG 2008

=> fil reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 15:28:45 ON 09 AUG 2008
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STRUCTURE FILE UPDATES: 8 AUG 2008 HIGHEST RN 1039687-60-9
DICTIONARY FILE UPDATES: 8 AUG 2008 HIGHEST RN 1039687-60-9

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

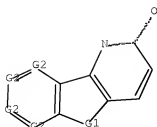
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<http://www.cas.org/support/stngen/stdoc/properties.html>

=> d saved
=> activate BART10535007/A
L1 STR
L2 924 SEA FILE=REGISTRY SSS FUL L1

=> d l1
L1 HAS NO ANSWERS
L1 STR

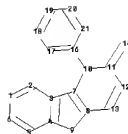
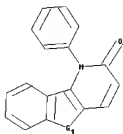


G1 O, S, N
G2 C, N

Structure attributes must be viewed using STN Express query preparation.

=>

Uploading C:\Program Files\STNEXP\Queries\1156840.str



chain nodes :

14

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 16 17 18 19 20 21

chain bonds :

10-16 11-14

ring bonds :

1-2 1-6 2-3 3-4 3-7 4-5 4-9 5-6 7-8 7-10 8-9 8-13 10-11 11-12 12-13

16-17 16-21 17-18 18-19 19-20 20-21

exact/norm bonds :

3-7 4-9 7-8 7-10 8-9 8-13 10-11 10-16 11-12 11-14 12-13

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G1:O,N

Match level :

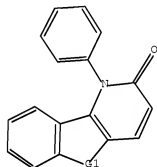
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 21:Atom

L3 STRUCTURE UPLOADED

=> d l3

L3 HAS NO ANSWERS

L3 STR



G1 O,N

Structure attributes must be viewed using STN Express query preparation.

=> s sss sam l3

SAMPLE SEARCH INITIATED 15:30:30 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 90 TO ITERATE

100.0% PROCESSED 90 ITERATIONS

9 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 1231 TO 2369

PROJECTED ANSWERS: 9 TO 360

L4 9 SEA SSS SAM L3

=> s sss sam l3 subset=L2

SAMPLE SUBSET SEARCH INITIATED 15:31:15 FILE 'REGISTRY'

SAMPLE SUBSET SCREEN SEARCH COMPLETED - 12 TO ITERATE

100.0% PROCESSED 12 ITERATIONS

9 ANSWERS

SEARCH TIME: 00.00.01

PROJECTIONS (WITHIN SPECIFIED SUBSET):

ONLINE **COMPLETE**

PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET):

33 TO 447

PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET):

9 TO 360

designations for field codes in the current file, enter "DISPLAY UNIT ALL" at an arrow prompt (=>).

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L10 17 L9

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4581875 PRY<2005

L11 11 L10 AND (AY<2005 OR PY<2005 OR PRY<2005)

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L11 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:1241186 CAPLUS Full-text

DOCUMENT NUMBER: 143:477858

TITLE: Preparation of substituted pyrido[3,2-b]indoles for use in pharmaceutical compositions for the treatment of HIV-infection

INVENTOR(S): Kesteleyn, Bart Rudolf Romanie; Van De Vreken, Wim; Kindermans, Natalie Maria Francisca; Canard, Maxime Francis Jean-Marie Ghislain; Hertogs, Kurt; Bettens, Eva; De Vroey, Veronique Corine Paul; Jochmans, Dirk Edward Desire; Wigerinck, Piet Tom Bert Paul; Wang, Jing; Tahri, Abdellah; Surleraux, Dominique Louis Nestor Ghislain

PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.

SOURCE: PCT Int. Appl., 92 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005110411	A1	20051124	WO 2005-EP52266	20050517 <--
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,			

EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG

AU 2005244449	A1	20051124	AU 2005-244449	20050517 <--
CA 2563601	A1	20051124	CA 2005-2563601	20050517 <--
EP 1750708	A1	20070214	EP 2005-747916	20050517 <--

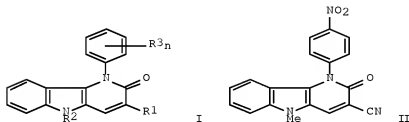
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 HR, LV, MK, YU

CN 1953751	A	20070425	CN 2005-80015688	20050517 <--
BR 2005011144	A	20071127	BR 2005-11144	20050517 <--
JP 2007538053	T	20071227	JP 2007-517256	20050517 <--
IN 2006DN06106	A	20070831	IN 2006-DN6106	20061019 <--
US 20070249655	A1	20071025	US 2006-569111	20061114 <--
MX 2006PA13316	A	20070202	MX 2006-PA13316	20061116 <--
KR 2007011588	A	20070124	KR 2006-725921	20061208 <--

PRIORITY APPLN. INFO.: EP 2004-102173 A 20040517 <--
 US 2004-102173 A 20040517 <--
 WO 2005-EP52266 W 20050517

OTHER SOURCE(S): CASREACT 143:477858; MARPAT 143:477858

GI



AB Pyrido[3,2-b]indoles, such as I [R1 = H, CN, halogen, alkylcarbonyl, etc.; R2 = H, (hetero)alkyl, alkenyl, etc.; R3 = NO2, CN, OH, (un)substituted amino, etc.; n = 1-3; and their N-oxides, salts, stereoisomers, racemic mixts., prodrugs, esters or metabolites thereof], were prepared for therapeutic use and anti-HIV agents. Thus, pyrido[3,2-b]indole II was prepared via a five step synthetic scheme starting from the reaction of 1-acetyl-3-hydroxyindole with 4-nitroaniline. The prepared pyrido[3,2-b]indoles were tested for inhibition of HIV reverse transcriptase, for metabolism using human liver microsomal fractions and for anti-HIV activity. Thus, I and their pharmaceutical compns. are useful for the treatment of retroviral infections such as HIV infection, in particular, in the treatment of infections with multi-drug resistant retroviruses.

IT 304465-35-8P 252548-47-1P 698396-45-1P
 698396-64-4P 698396-65-5P 698396-80-4P
 698396-93-9P 698396-97-3P 698396-38-4P
 698397-05-6P 698397-11-4P 698397-15-8P
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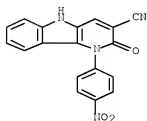
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of substituted pyrido[3,2-b]indoles for use in pharmaceutical compns. for the treatment of HIV-infection)

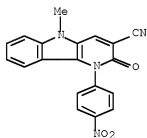
RN 304465-35-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-
(CA INDEX NAME)



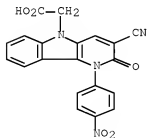
RN 352548-47-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 698396-45-1 CAPLUS

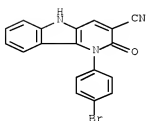
CN 5H-Pyrido[3,2-b]indole-5-acetic acid, 3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 698396-64-4 CAPLUS

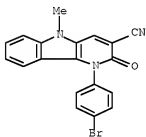
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-bromophenyl)-2,5-dihydro-2-oxo-

(CA INDEX NAME)



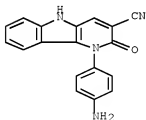
RN 698396-65-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-bromophenyl)-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



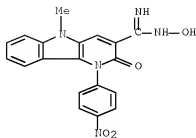
RN 698396-80-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-aminophenyl)-2,5-dihydro-2-oxo- (CA INDEX NAME)



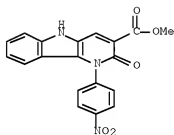
RN 698396-93-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carboximidamide, 2,5-dihydro-N-hydroxy-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



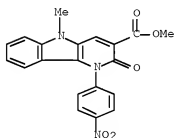
RN 698396-97-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carboxylic acid, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-, methyl ester (CA INDEX NAME)



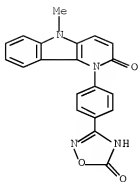
RN 698396-98-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carboxylic acid, 2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo-, methyl ester (CA INDEX NAME)



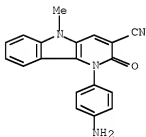
RN 698397-05-6 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(2,5-dihydro-5-oxo-1,2,4-oxadiazol-3-yl)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



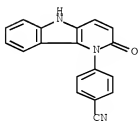
RN 698397-11-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-aminophenyl)-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



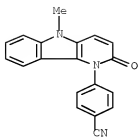
RN 698397-15-8 CAPLUS

CN Benzonitrile, 4-(2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA INDEX NAME)



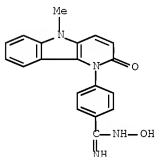
RN 698397-18-1 CAPLUS

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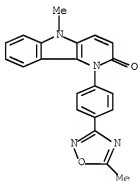
RN 698397-19-2 CAPLUS

CN Benzenecarboximidamide, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-N-phenyl- (CA INDEX NAME)



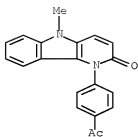
RN 698397-25-0 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]- (CA INDEX NAME)



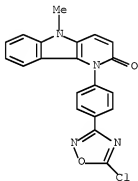
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CN 2H-Pyrido[3,2-b]indol-2-one, 1-(4-acetylphenyl)-1,5-dihydro-5-methyl- (CA INDEX NAME)



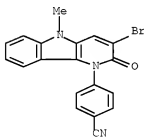
RN 698397-43-2 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(5-chloro-1,2,4-oxadiazol-3-yl)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



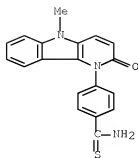
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CN Benzonitrile, 4-(3-bromo-2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA INDEX NAME)

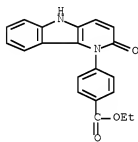


RN 698397-45-4 CAPLUS

CN Benzenecarbothioamide, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA INDEX NAME)



IT 698397-13-6
 RL: PAC (Pharmacological activity); RCT (Reactant); THU (Therapeutic use);
 BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
 (preparation of substituted pyrido[3,2-b]indoles for use in pharmaceutical
 compns. for the treatment of HIV-infection)
 RN 698397-13-6 CAPLUS
 CN Benzoic acid, 4-(2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-, ethyl
 ester (CA INDEX NAME)



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 698397-37-4P 698397-38-5P 698397-39-6P
 698397-40-9P 698397-42-1P

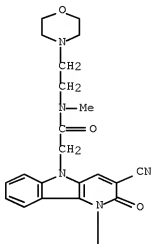
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of substituted pyrido[3,2-b]indoles for use in pharmaceutical compns. for the treatment of HIV-infection)

RN 698396-30-4 CAPLUS

CN 5H-Pyrido[3,2-b]indole-5-acetamide, 3-cyano-1,2-dihydro-N-methyl-N-[2-(4-morpholinyl)ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

PAGE 1-A

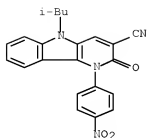


PAGE 2-A



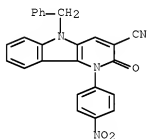
RN 698396-31-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-(2-methylpropyl)-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



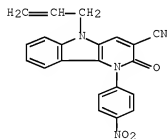
RN 698396-32-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(phenylmethyl)- (CA INDEX NAME)



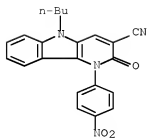
RN 698396-33-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(2-propen-1-yl)- (CA INDEX NAME)



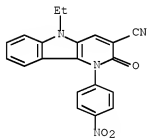
RN 698396-34-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-butyl-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



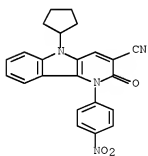
RN 698396-35-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-ethyl-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



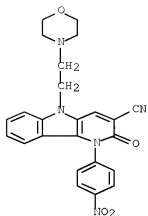
RN 698396-36-0 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-cyclopentyl-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



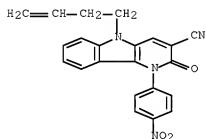
RN 698396-37-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-(4-morpholinyl)ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



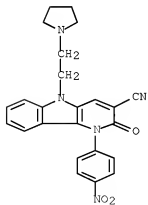
RN 698396-38-2 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-(3-buten-1-yl)-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



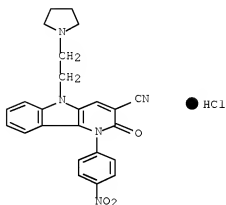
RN 698396-39-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-(1-pyrrolidinyl)ethyl]- (CA INDEX NAME)



RN 698396-40-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-(1-pyrrolidinyl)ethyl]-, hydrochloride (1:1) (CA INDEX NAME)



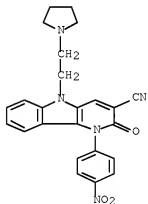
RN 698396-41-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-(1-pyrrolidinyl)ethyl]-, ethanedioate (1:1) (CA INDEX NAME)

CM 1

CRN 698396-39-3

CMF C24 H21 N5 O3



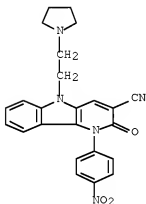
CM 2

CRN 144-62-7

CMF C2 H2 O4



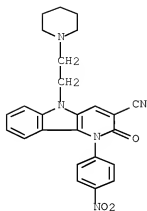
RN 698396-42-8 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-(1-pyrrolidiny)ethyl]-, methanesulfonate (1:1) (CA INDEX NAME)
 CM 1
 CRN 698396-39-3
 CMF C24 H21 N5 O3



CM 2
 CRN 75-75-2
 CMF C H4 O3 S

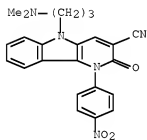


RN 698396-43-9 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-(1-piperidiny)ethyl]- (CA INDEX NAME)



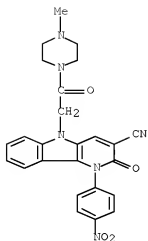
RN 698396-44-0 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-(dimethylamino)propyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



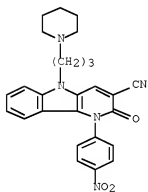
RN 698396-46-2 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-(4-methyl-1-piperazinyl)-2-oxoethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



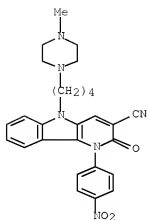
RN 698396-47-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[3-(1-piperidinyl)propyl]- (CA INDEX NAME)

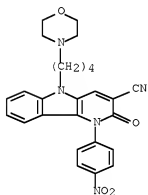


RN 698396-48-4 CAPLUS

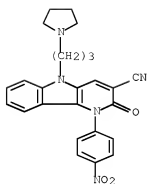
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[4-(4-methyl-1-piperazinyl)butyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 698396-49-5 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[4-(4-morpholinyl)butyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

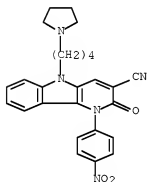


RN 698396-50-8 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[3-(1-pyrrolidinyl)propyl]- (CA INDEX NAME)



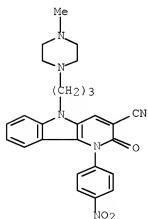
RN 698396-51-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[4-(1-pyrrolidinyl)butyl]- (CA INDEX NAME)



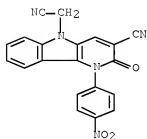
RN 698396-52-0 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[3-(4-methyl-1-piperazinyl)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



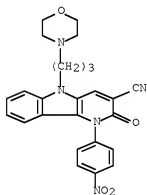
RN 698396-53-1 CAPLUS

CN 5H-Pyrido[3,2-b]indole-5-acetonitrile, 3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



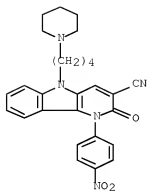
RN 698396-54-2 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[3-(4-morpholinyl)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



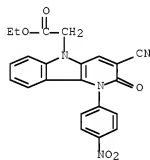
RN 698396-55-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[4-(1-piperidiny)butyl]- (CA INDEX NAME)



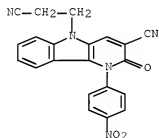
RN 698396-56-4 CAPLUS

CN 5H-Pyrido[3,2-b]indole-5-acetic acid, 3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo-, ethyl ester (CA INDEX NAME)



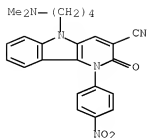
RN 698396-57-5 CAPLUS

CN 5H-Pyrido[3,2-b]indole-5-propanenitrile, 3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



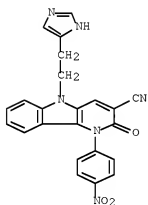
RN 698396-58-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[4-(dimethylamino)butyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



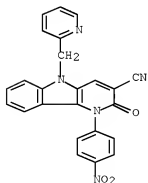
RN 698396-59-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-(1H-imidazol-5-yl)ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



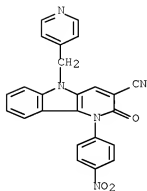
RN 698396-60-0 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(2-pyridinylmethyl)- (CA INDEX NAME)



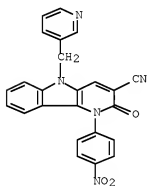
RN 698396-61-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(4-pyridinylmethyl)- (CA INDEX NAME)



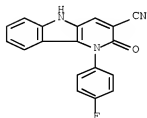
RN 698396-62-2 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(3-pyridinylmethyl)- (CA INDEX NAME)



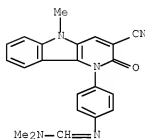
RN 698396-63-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-fluorophenyl)-2,5-dihydro-2-oxo- (CA INDEX NAME)



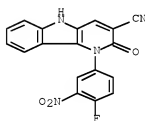
RN 698396-66-6 CAPLUS

CN Methanimidamide, N'-[4-(3-cyano-2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)phenyl]-N,N-dimethyl- (CA INDEX NAME)



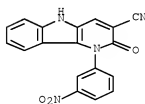
RN 698396-67-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-fluoro-3-nitrophenyl)-2,5-dihydro-2-oxo- (CA INDEX NAME)



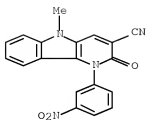
RN 698396-68-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(3-nitrophenyl)-2-oxo- (CA INDEX NAME)



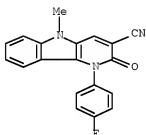
RN 698396-69-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-1-(3-nitrophenyl)-2-oxo- (CA INDEX NAME)



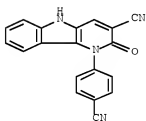
RN 698396-70-2 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-fluorophenyl)-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



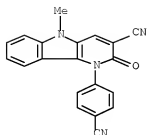
RN 698396-71-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-2-oxo- (CA INDEX NAME)



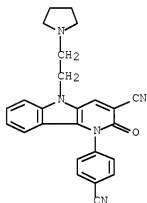
RN 698396-72-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



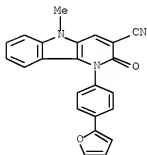
RN 698396-73-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-2-oxo-5-[2-(1-pyrrolidinyl)ethyl]- (CA INDEX NAME)



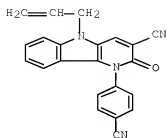
RN 698396-74-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-[4-(2-furanyl)phenyl]-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



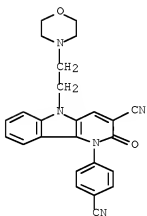
RN 698396-75-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-2-oxo-5-(2-propen-1-yl)- (CA INDEX NAME)



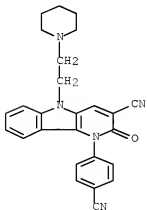
RN 698396-76-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-5-[2-(4-morpholinyl)ethyl]-2-oxo- (CA INDEX NAME)



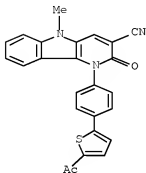
RN 698396-77-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-2-oxo-5-[2-(1-piperidinyl)ethyl]- (CA INDEX NAME)



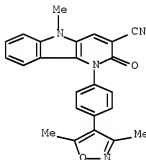
RN 698396-78-0 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-[4-(5-acetyl-2-thienyl)phenyl]-
2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



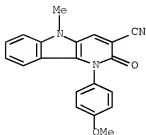
RN 698396-79-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-[4-(3,5-dimethyl-4-isoxazolyl)phenyl]-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



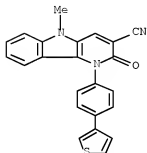
RN 698396-81-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-methoxyphenyl)-5-methyl-2-oxo- (CA INDEX NAME)



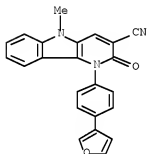
RN 698396-82-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-2-oxo-1-[4-(3-thienyl)phenyl]- (CA INDEX NAME)



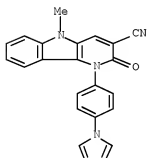
RN 698396-83-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-[4-(3-furanyl)phenyl]-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



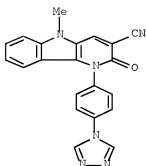
RN 698396-84-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-2-oxo-1-[4-(1H-pyrrol-1-yl)phenyl]- (CA INDEX NAME)



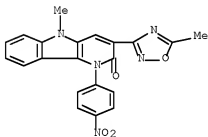
RN 698396-85-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-2-oxo-1-[4-(4H-1,2,4-triazol-4-yl)phenyl]- (CA INDEX NAME)



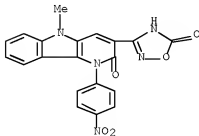
RN 698396-86-0 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-3-(5-methyl-1,2,4-oxadiazol-3-yl)-1-(4-nitrophenyl)- (CA INDEX NAME)



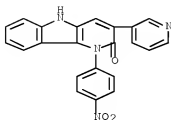
RN 698396-87-1 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 3-(2,5-dihydro-5-oxo-1,2,4-oxadiazol-3-yl)-1,5-dihydro-5-methyl-1-(4-nitrophenyl)- (CA INDEX NAME)



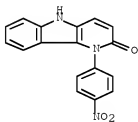
RN 698396-88-2 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-(4-nitrophenyl)-3-(3-pyridinyl)-
(CA INDEX NAME)



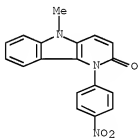
RN 698396-89-3 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-(4-nitrophenyl)- (CA INDEX
NAME)



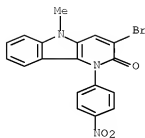
RN 698396-90-6 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-(4-nitrophenyl)- (CA
INDEX NAME)



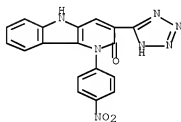
RN 698396-91-7 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 3-bromo-1,5-dihydro-5-methyl-1-(4-
nitrophenyl)- (CA INDEX NAME)



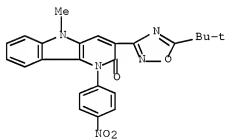
RN 698396-92-8 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-(4-nitrophenyl)-3-(2H-tetrazol-5-yl)- (CA INDEX NAME)



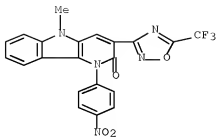
RN 698396-94-0 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 3-[5-(1,1-dimethylethyl)-1,2,4-oxadiazol-3-yl]-1,5-dihydro-5-methyl-1-(4-nitrophenyl)- (CA INDEX NAME)



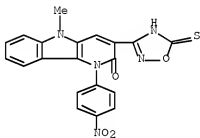
RN 698396-95-1 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-(4-nitrophenyl)-3-[5-(trifluoromethyl)-1,2,4-oxadiazol-3-yl]- (CA INDEX NAME)



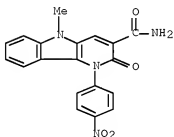
RN 698396-96-2 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 3-(2,5-dihydro-5-thioxo-1,2,4-oxadiazol-3-yl)-1,5-dihydro-5-methyl-1-(4-nitrophenyl)- (CA INDEX NAME)



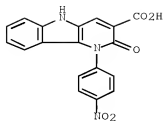
RN 698396-99-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carboxamide, 2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



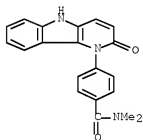
RN 698397-00-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carboxylic acid, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



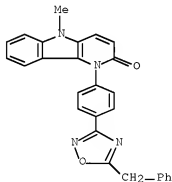
RN 698397-01-2 CAPLUS

CN Benzamide, 4-(2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-N,N-dimethyl-
(CA INDEX NAME)



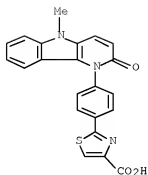
RN 698397-02-3 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-[5-(phenylmethyl)-
1,2,4-oxadiazol-3-yl]phenyl]- (CA INDEX NAME)



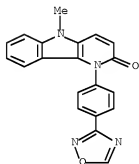
RN 698397-03-4 CAPLUS

CN 4-Thiazolecarboxylic acid, 2-[4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-
b]indol-1-yl)phenyl]- (CA INDEX NAME)



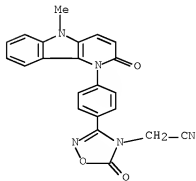
RN 698397-04-5 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-(1,2,4-oxadiazol-3-yl)phenyl]- (CA INDEX NAME)



RN 698397-06-7 CAPLUS

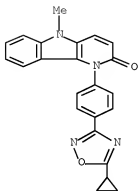
CN 1,2,4-Oxadiazole-4(5H)-acetonitrile, 3-[4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)phenyl]-5-oxo- (CA INDEX NAME)



RN 698397-07-8 CAPLUS

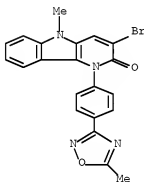
CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(5-cyclopropyl-1,2,4-oxadiazol-3-

yl)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



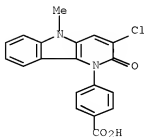
RN 698397-08-9 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 3-bromo-1,5-dihydro-5-methyl-1-[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]- (CA INDEX NAME)



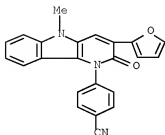
RN 698397-09-0 CAPLUS

CN Benzoic acid, 4-(3-chloro-2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA INDEX NAME)



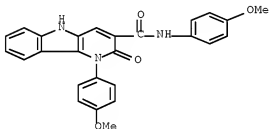
RN 698397-10-3 CAPLUS

CN Benzonitrile, 4-[3-(2-furanyl)-2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl]- (CA INDEX NAME)



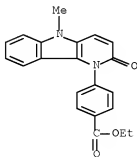
RN 698397-12-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carboxamide, 2,5-dihydro-N,1-bis(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



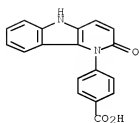
RN 698397-14-7 CAPLUS

CN Benzoic acid, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-, ethyl ester (CA INDEX NAME)



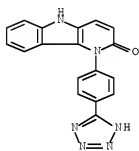
RN 698397-16-9 CAPLUS

CN Benzoic acid, 4-(2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA INDEX NAME)



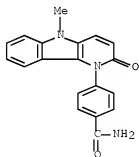
RN 698397-17-0 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-[4-(2H-tetrazol-5-yl)phenyl]-
(CA INDEX NAME)



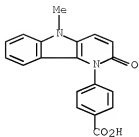
RN 698397-20-5 CAPLUS

CN Benamide, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA
INDEX NAME)



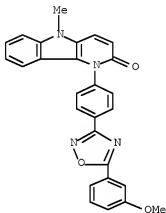
RN 698397-21-6 CAPLUS

CN Benzoic acid, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-
(CA INDEX NAME)



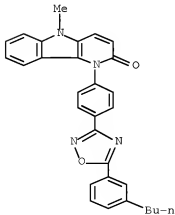
RN 698397-22-7 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-[4-[5-(3-methoxyphenyl)-1,2,4-oxadiazol-3-yl]phenyl]-5-methyl- (CA INDEX NAME)



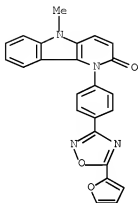
RN 698397-23-8 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-[5-(3-butyphenyl)-1,2,4-oxadiazol-3-yl]phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



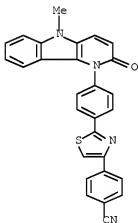
RN 698397-24-9 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-[5-(2-furanyl)-1,2,4-oxadiazol-3-yl]phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



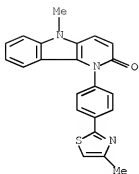
RN 698397-26-1 CAPLUS

CN Benzonitrile, 4-[2-[4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)phenyl]-4-thiazolyl]- (CA INDEX NAME)



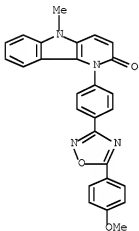
RN 698397-27-2 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-(4-methyl-2-thiazolyl)phenyl]- (CA INDEX NAME)



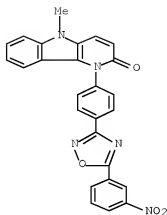
RN 698397-28-3 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-[4-[5-(4-methoxyphenyl)-1,2,4-oxadiazol-3-yl]phenyl]-5-methyl- (CA INDEX NAME)



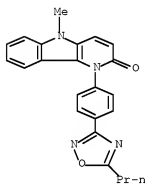
RN 698397-29-4 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-[5-(3-nitrophenyl)-1,2,4-oxadiazol-3-yl]phenyl]- (CA INDEX NAME)



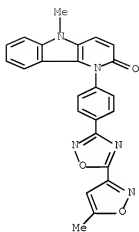
RN 698397-30-7 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-(5-propyl-1,2,4-oxadiazol-3-yl)phenyl]- (CA INDEX NAME)



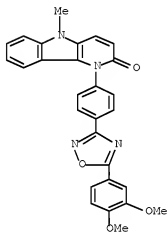
RN 698397-31-8 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-[5-(5-methyl-3-isoxazolyl)-1,2,4-oxadiazol-3-yl]phenyl]- (CA INDEX NAME)



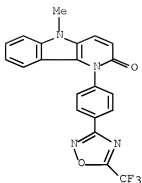
RN 698397-32-9 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-[5-(3,4-dimethoxyphenyl)-1,2,4-oxadiazol-3-yl]phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



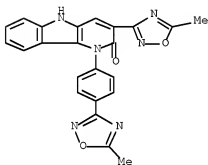
RN 698397-33-0 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-[5-(trifluoromethyl)-1,2,4-oxadiazol-3-yl]phenyl]- (CA INDEX NAME)



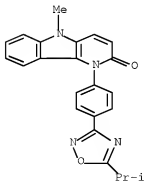
RN 698397-34-1 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-3-(5-methyl-1,2,4-oxadiazol-3-yl)-1-[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]- (CA INDEX NAME)



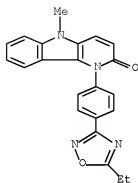
RN 698397-35-2 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-[5-(1-methylethyl)-1,2,4-oxadiazol-3-yl]phenyl]- (CA INDEX NAME)

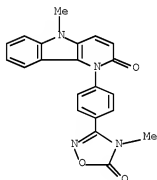


RN 698397-36-3 CAPLUS

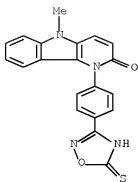
CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(5-ethyl-1,2,4-oxadiazol-3-yl)phenyl]-
1,5-dihydro-5-methyl- (CA INDEX NAME)



RN 698397-37-4 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(4,5-dihydro-4-methyl-5-oxo-1,2,4-
oxadiazol-3-yl)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)

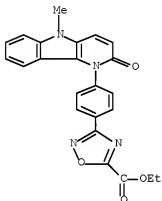


RN 698397-38-5 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(2,5-dihydro-5-thioxo-1,2,4-oxadiazol-3-
yl)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



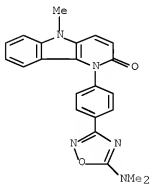
RN 698397-39-6 CAPLUS

CN 1,2,4-Oxadiazole-5-carboxylic acid, 3-[4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)phenyl]-, ethyl ester (CA INDEX NAME)

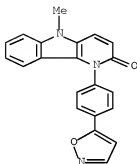


RN 698397-40-9 CAPLUS

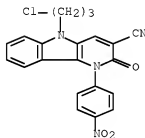
CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-[5-(dimethylamino)-1,2,4-oxadiazol-3-yl]phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



RN 698397-42-1 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-[4-(5-isoxazolyl)phenyl]-5-methyl- (CA INDEX NAME)



IT 698397-46-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of substituted pyrido[3,2-b]indoles for use in pharmaceutical comps. for the treatment of HIV-infection)
RN 698397-46-5 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-(3-chloropropyl)-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

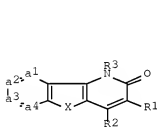
L11 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:1241160 CAPLUS [Full-text](#)
DOCUMENT NUMBER: 143:477857
TITLE: Preparation of benzo[4,5]furo[3,2-b]pyridin-2-ones and pyrido[3,2-b]indol-2-ones as inhibitors of HIV reverse transcriptase
INVENTOR(S): Kesteleyn, Bart Rudolf Romanie; Van De Vreken, Wim; Surleraux, Dominique Louis Nestor Ghislain; Vendeville, Sandrine Marie Helene; Raboisson, Pierre Jean-Marie Bernard; Wigerinck, Piet Tom Bert Paul; Peeters, Annick Ann
PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.

SOURCE: PCT Int. Appl., 94 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

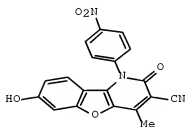
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005111044	A1	20051124	WO 2005-EP52265	20050517 <--
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RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1751165	A1	20070214	EP 2005-752659	20050517 <--
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CN 1953982	A	20070425	CN 2005-80015617	20050517 <--
BR 2005011267	A	20071127	BR 2005-11267	20050517 <--
JP 2007538052	T	20071227	JP 2007-517255	20050517 <--
IN 2006DN06230	A	20070831	IN 2006-DN6230	20061025 <--
US 20070213320	A1	20070913	US 2006-569108	20061114 <--
MX 2006PA13315	A	20070202	MX 2006-PA13315	20061116 <--
PRIORITY APPLN. INFO.:			EP 2004-102172	A 20040517 <--
			WO 2005-EP52265	W 20050517
OTHER SOURCE(S):		CASREACT 143:477857; MARPAT 143:477857		

OTHER SOURCE(S): CASREACT 143:477857; MARPAT 143:477857

GI



I



II

AB Title compds. represented by the formula I [wherein R1 = H, cyano, halo, aminocarbonyl, etc.; X = bivalent radical (un)substituted amino, O, S, SO, SO2; R2 = halo, hydroxy, amino, etc.; R3 = (un)substituted Ph or (bi)cyclic aromatic heterocyclic ring system; a1:a2-a3:a4 = CH:CH-CH:CH, N:CH-CH:CH, CH:N-CH:CH, CH:CH-N:CH, CH:CH-CH:N; and the N-oxides, salts, stereoisomeric forms, racemic mixts., prodrugs, esters and metabolites thereof] were prepared as inhibitors of HIV reverse transcriptase. For example, II was provided in a multi-step synthesis starting from 2-fluoro-4-hydroxybenzonitrile. II showed

inhibition of HIV reverse transcriptase with pEC50 value of 5.5. The pharmaceutical formulations of I were also described.

IT 869789-15-5P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

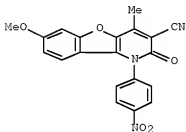
(preparation of benzo[4,5]furo[3,2-b]pyridin-2-ones and pyrido[3,2-b]indol-

2-

ones as inhibitors of HIV reverse transcriptase)

RN 869789-19-5 CAPLUS

CN Benzofuro[3,2-b]pyridine-3-carbonitrile, 1,2-dihydro-7-methoxy-4-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



IT 869789-15-1P 869789-16-2P 869789-18-4F

869789-20-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

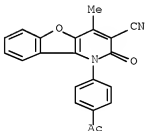
(preparation of benzo[4,5]furo[3,2-b]pyridin-2-ones and pyrido[3,2-b]indol-

2-

ones as inhibitors of HIV reverse transcriptase)

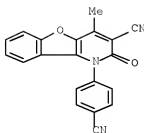
RN 869789-15-1 CAPLUS

CN Benzofuro[3,2-b]pyridine-3-carbonitrile, 1-(4-acetylphenyl)-1,2-dihydro-4-methyl-2-oxo- (CA INDEX NAME)



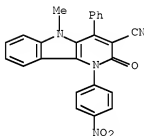
RN 869789-16-2 CAPLUS

CN Benzofuro[3,2-b]pyridine-3-carbonitrile, 1-(4-cyanophenyl)-1,2-dihydro-4-methyl-2-oxo- (CA INDEX NAME)



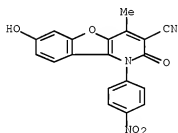
RN 869789-18-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo-4-phenyl- (CA INDEX NAME)



RN 869789-20-8 CAPLUS

CN Benzofuro[3,2-b]pyridine-3-carbonitrile, 1,2-dihydro-7-hydroxy-4-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



IT J04465-35-8P 352548-47-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

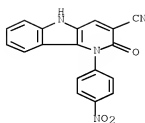
(preparation of benzo[4,5]furo[3,2-b]pyridin-2-ones and pyrido[3,2-b]indol-

2-

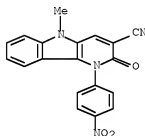
ones as inhibitors of HIV reverse transcriptase)

RN 304465-35-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 352548-47-1 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:1241144 CAPLUS Full-text
 DOCUMENT NUMBER: 144:6779
 TITLE: Preparation of 1-heterocyclyl-1,5-dihydropyrido[3,2-b]indol-2-ones and analogs as antiviral agents
 INVENTOR(S): Kesteley, Bart Rudolf Romanie; Raboisson, Pierre Jean-Marie Bernard; Surleraux, Dominique Louis Nestor Ghislain; Hache, Geerwin Yvonne Paul; Vendeville, Sandrine Marie Helene; Peeters, Annick Ann; Wigerinck, Piet Tom Bert Paul
 PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.
 SOURCE: PCT Int. Appl., 100 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005111047	A1	20051124	WO 2005-EP52264	20050517 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,				

LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA,
 NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,
 SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
 ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
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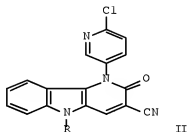
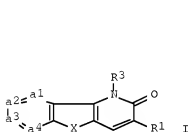
AU 2005243439 A1 20051124 AU 2005-243439 20050517 <--
 CA 2564027 A1 20051124 CA 2005-2564027 20050517 <--
 EP 1758911 A1 20070307 EP 2005-749219 20050517 <--

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA,
 HR, LV, MK, YU

CN 1953983 A 20070425 CN 2005-80015818 20050517 <--
 BR 2005011175 A 20071204 BR 2005-11175 20050517 <--
 JP 2007538051 T 20071227 JP 2007-517254 20050517 <--
 IN 2006DN06239 A 20070831 IN 2006-DN6239 20061025 <--
 US 20070265295 A1 20071115 US 2006-568845 20061108 <--
 MX 2006PA13314 A 20070202 MX 2006-PA13314 20061116 <--
 KR 2007015608 A 20070205 KR 2006-725910 20061208 <--
 NO 2006005898 A 20070219 NO 2006-5898 20061218 <--

PRIORITY APPLN. INFO.: EP 2004-102171 A 20040517 <--
 WO 2005-EP52264 W 20050517

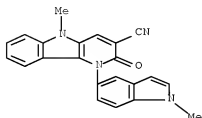
OTHER SOURCE(S): CASREACT 144:6779; MARPAT 144:6779
 GI



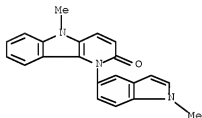
AB This invention relates to 1-heterocyclyl-1,5-dihydropyrido[3,2-b]indol-2- ones and analogs I [wherein R1 = H, halo, cyano, etc.; X = O, S, SO, SO2 or (un)substituted NH; a1=a2-a3=a4 = (un)substituted -CH=CH-CH=CH-, -N=CH-CH=CH-, -CH=N-CH=CH-, -CH=CH-N=CH- or -CH=CH-CH=N-; R3 = heteroaryl, their N-oxides, salts, stereoisomeric forms, racemic mixts., prodrugs, esters and metabolites], their use as HIV inhibitors, pharmaceutical compns. containing them and processes for preparing them. For instance, N-acetyl-3-hydroxyindole underwent successive coupling reaction with 6-chloro-3-pyridinamine, deacetylation with MeOH, formylation with POCl3-DMF in the 2nd position, and cyclization with Et cyanoacetate to give II (R = H), which was methylated with MeI to give II (R = Me). II (R = H) and II (R = Me) showed antiviral activity with pEC50 of 5.6 and 6.1, resp., in the cellular assay.

IT 869958-05-4P 869958-14-5P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of dihydropyridoindolones and analogs as antiviral agents)
RN 869958-05-4 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-1-(1-methyl-1H-indol-5-yl)-2-oxo- (CA INDEX NAME)



RN 869958-14-5 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-(1-methyl-1H-indol-5-yl)- (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:1241136 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 143:477955

TITLE: Preparation of 1-phenyl-1,5-dihydropyrido[3,2-b]indol-2-ones and analogs as antiviral agents

INVENTOR(S): Kesteleyn, Bart Rudolf Romanie; Vendeville, Sandrine Marie Helene; Kindermans, Natalie Maria Francisca; Surleraux, Dominique Louis Nestor Ghislain; Raboisson, Pierre Jean-Marie Bernard; Wigerinck, Piet Tom Bert Paul; Peeters, Annick Ann

PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.

SOURCE: PCT Int. Appl., 99 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005111035	A1	20051124	WO 2005-EP52263	20050517 <--

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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

EP 1751156 A1 20070214 EP 2005-747918 20050517 <--

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CN 1976930 A 20070606 CN 2005-80015199 20050517 <--

BR 2005011173 A 20071204 BR 2005-11173 20050517 <--

JP 2007538050 T 20071227 JP 2007-517253 20050517 <--

IN 2006DN06236 A 20070831 IN 2006-DN6236 20061025 <--

US 20070167434 A1 20070719 US 2006-568840 20061108 <--

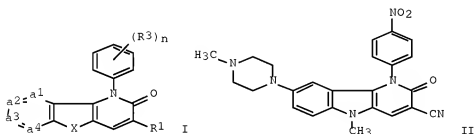
MX 2006PA13313 A 20070202 MX 2006-PA13313 20061116 <--

PRIORITY APPLN. INFO.: EP 2004-102170 A 20040517 <--

WO 2005-EP52263 W 20050517

OTHER SOURCE(S): CASREACT 143:477955; MARPAT 143:477955

GI



AB This invention relates to 1-phenyl-1,5-dihydropyrido[3,2-b]indol-2-ones and analogs I [n = 1-3; R¹ = H, halo, cyano, etc.; R³ = nitro, cyano, amino, etc.; X = O, S, SO, SO₂, (un)substituted NH; a¹=a²-a³=a⁴ = substituted -CH=CH-CH=CH-, -N=CH-CH=CH-, -CH=N-CH=CH-, -CH=CH-N=CH- or -CH=CH-CH=N-, their N-oxides, salts, stereoisomeric forms, racemic mixts., prodrugs, esters and metabolites], their use as HIV inhibitors, pharmaceutical compns. containing them and processes for preparing them. For instance, N-acetyl-3-hydroxyindole underwent successive coupling reaction with 4-nitroaniline, deacetylation with MeOH, formylation with POCl₃-DMF in the 2nd position, Knoevenagel condensation with Et cyanoacetate, cyclization in refluxing ethylene glycol and N-methylation with MeI, bromination with NBS and substitution with N-methylpiperazine to give II. This compound showed antiviral activity with pEC₅₀ = 6.5 in the cellular assay.

IT 869791-85-5P 869791-87-7P 869791-88-0P

869791-89-1P

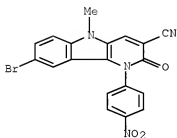
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); RACT (Reactant or reagent); USES (Uses)

(drug candidate; preparation of dihydropyridoindolones and analogs as antiviral agents)

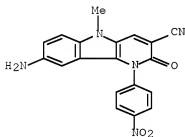
RN 869791-85-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 8-bromo-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



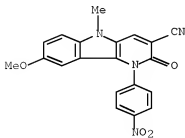
RN 869791-87-7 CAPLUS

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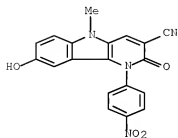
RN 869791-98-0 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-8-methoxy-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869791-99-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-8-hydroxy-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



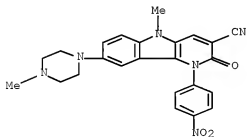
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 869791-91-3P 869792-00-7P 869792-02-9P
 869792-08-5P 869792-09-6P 869792-10-9P
 869792-11-0P 869792-12-1P 869792-13-2P
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 869792-26-7P 869792-27-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of dihydropyridoindolones and analogs as antiviral agents)

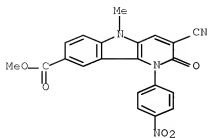
RN 869791-86-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-8-(4-methyl-1-piperazinyl)-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



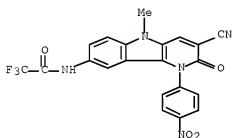
RN 869791-89-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-8-carboxylic acid, 3-cyano-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo-, methyl ester (CA INDEX NAME)



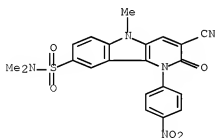
RN 869791-90-2 CAPLUS

CN Acetamide, N-[3-cyano-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo-1H-pyrido[3,2-b]indol-8-yl]-2,2,2-trifluoro- (CA INDEX NAME)



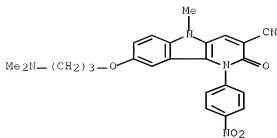
RN 869791-91-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-8-sulfonamide, 3-cyano-2,5-dihydro-N,N,5-trimethyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



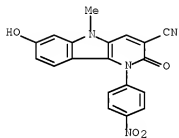
RN 869792-00-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 8-[3-(dimethylamino)propoxy]-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



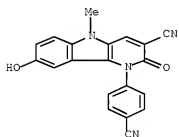
RN 869792-02-9 CAPLUS

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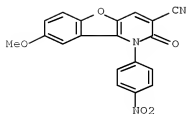
RN 869792-08-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-8-hydroxy-5-methyl-2-oxo- (CA INDEX NAME)



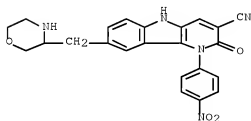
RN 869792-09-6 CAPLUS

CN Benzo[5,6-b]pyridine-3-carbonitrile, 1,2-dihydro-8-methoxy-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



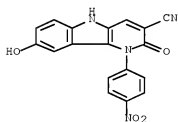
RN 869792-10-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-8-(3-morpholinylmethyl)-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



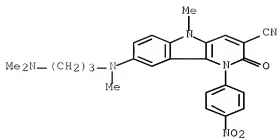
RN 869792-11-0 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-8-hydroxy-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



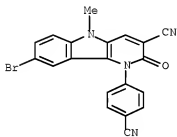
RN 869792-12-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 8-[[3-(dimethylamino)propyl]methylamino]-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



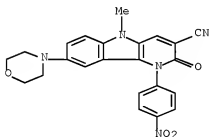
RN 869792-13-2 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 8-bromo-1-(4-cyanophenyl)-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



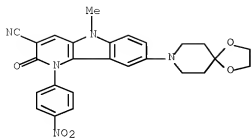
RN 869792-14-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-8-(4-morpholinyl)-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



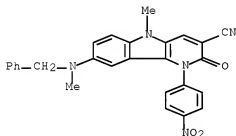
RN 869792-15-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 8-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



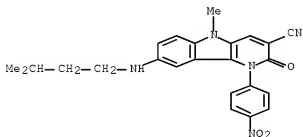
RN 869792-16-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-8-[methyl(phenylmethyl)amino]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



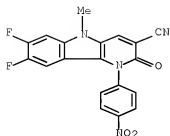
RN 869792-17-6 CAPLUS

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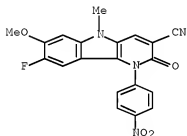
RN 869792-18-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 7,8-difluoro-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



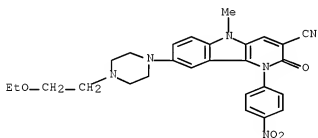
RN 869792-19-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 8-fluoro-2,5-dihydro-7-methoxy-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



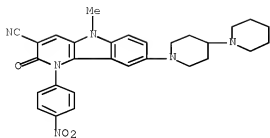
RN 869792-20-1 CAPLUS

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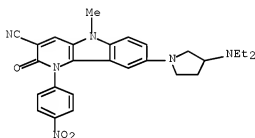
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CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 8-[1,4'-bipiperidin]-1'-yl-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



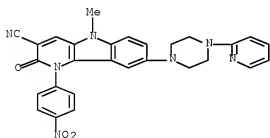
RN 869792-22-3 CAPLUS

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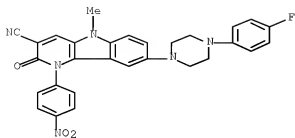
RN 869792-23-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo-8-[4-(2-pyridinyl)-1-piperazinyl]- (CA INDEX NAME)



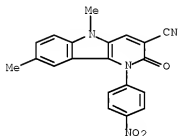
RN 869792-24-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 8-[4-(4-fluorophenyl)-1-piperazinyl]-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



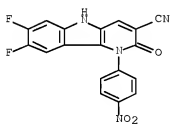
RN 869792-25-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5,8-dimethyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



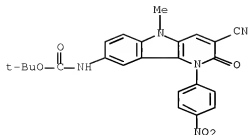
RN 869792-26-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 7,8-difluoro-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

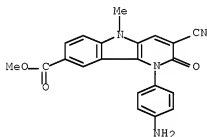


RN 869792-27-8 CAPLUS

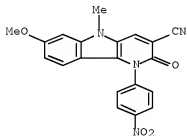
CN Carbamic acid, [3-cyano-2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo-1H-pyrido[3,2-b]indol-8-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



IT 869791-88-8P 869792-01-8P
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (preparation of dihydropyridoindolones and analogs as antiviral agents)
 RN 869791-88-8 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-8-carboxylic acid, 1-(4-aminophenyl)-3-cyano-2,5-dihydro-5-methyl-2-oxo-, methyl ester (CA INDEX NAME)



RN 869792-01-8 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-7-methoxy-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

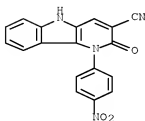


IT 364465-35-8P 352548-47-1P 869791-97-9P
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 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of dihydropyridoindolones and analogs as antiviral agents)

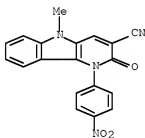
RN 304465-35-8 CAPLUS

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(CA INDEX NAME)



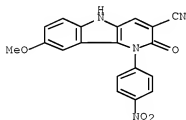
RN 352548-47-1 CAPLUS

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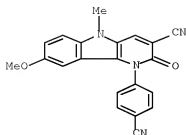
RN 869791-97-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-8-methoxy-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869792-07-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-8-methoxy-5-methyl-2-oxo- (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

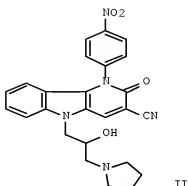
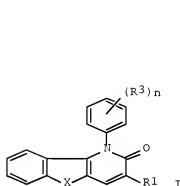
L11 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2008 ACS ON STN
 ACCESSION NUMBER: 2005:1241126 CAPLUS Full-text
 DOCUMENT NUMBER: 144:6778
 TITLE: Preparation of 1-phenyl-1,5-dihydropyrido[3,2-b]indol-2-ones and analogs as antiviral agents
 INVENTOR(S): Kesteleyn, Bart Rudolf Romanie; Canard, Maxime Francis Jean-Marie Ghislain; Van De Vreken, Wim; Raboisson, Pierre Jean-Marie Bernard; Surleraux, Dominique Louis Nestor Ghislain; Wigerinck, Piet Tom Bert Paul
 PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.
 SOURCE: PCT Int. Appl., 91 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005111034	A1	20051124	WO 2005-EP52262	20050517 <--
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
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CN 1953978	A	20070425	CN 2005-80015474	20050517 <--
BR 2005011264	A	20071127	BR 2005-11264	20050517 <--
JP 2007538049	T	20071227	JP 2007-517252	20050517 <--
IN 2006DN06228	A	20070831	IN 2006-DN6228	20061025 <--
US 20070238727	A1	20071011	US 2006-568838	20061108 <--
MX 2006PA13312	A	20070202	MX 2006-PA13312	20061116 <--
PRIORITY APPLN. INFO.:			EP 2004-102169	A 20040517 <--

OTHER SOURCE(S):

CASREACT 144:6778; MARPAT 144:6778

GI



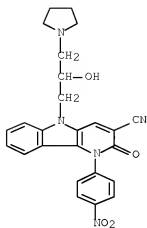
AB This invention relates to 1-phenyl-1,5-dihydropyrido[3,2-b]indol-2-ones and analogs I [wherein X = O, S, SO, SO₂, (un)substituted NH; n = 1-3; R₁ = H, halo, cyano, etc.; R₃ = nitro, cyano, amino, etc., their N-oxides, salts, stereoisomeric forms, racemic mixts., prodrugs, esters and metabolites], their use as HIV inhibitors, pharmaceutical compns. containing them and processes for preparing them. For instance, N-acetyl-3- hydroxyindole underwent successive coupling reaction with 4-nitroaniline, deacetylation with MeOH, formylation with POC13-DMF in the 2nd position, Knoevenagel condensation with Et cyanoacetate, cyclization in refluxing ethylene glycol, Mitsunobu reaction with glycidol, and ring-opening reaction with pyrrolidine to give II. This compound showed antiviral activity with pEC₅₀ = 6.6 in the cellular assay.

IT 869883-23-8P 869883-28-3P 869883-40-9P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(drug candidate; preparation of dihydropyridoindolones and analogs as antiviral agents)

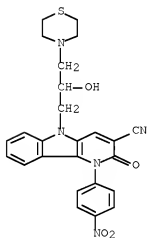
RN 869883-23-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-hydroxy-3-(1-pyrrolidinyl)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



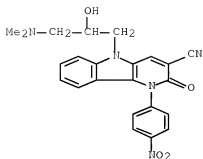
RN 869883-28-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-hydroxy-3-(4-thiomorpholinyl)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-40-9 CAPLUS

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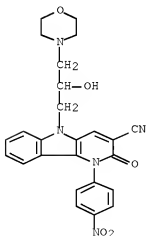


IT 869883-22-7P 869883-24-9P 869883-25-0P
 869883-26-1P 869883-27-2P 869883-29-4P
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 869883-34-1P 869883-35-2P 869883-36-3P
 869883-37-4P 869883-38-5P 869883-39-6P
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 869883-44-3P 869883-46-5P 869883-47-6P
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 869883-63-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)
 (drug candidate; preparation of dihydropyridoindolones and analogs as
 antiviral agents)

RN 869883-22-7 CAPLUS

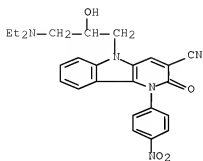
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-hydroxy-3-(4-
 morpholinyl)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-24-9 CAPLUS

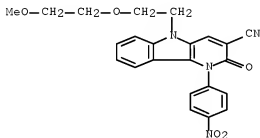
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-(diethylamino)-2-

hydroxypropyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



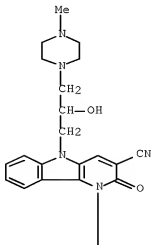
RN 869883-25-0 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-(2-methoxyethoxy)ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-26-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-hydroxy-3-(4-methyl-1-piperazinyl)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



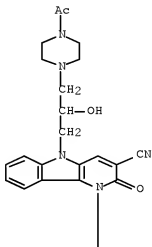
PAGE 1-A

PAGE 2-A



RN 869883-27-2 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-(4-acetyl-1-piperazinyl)-2-hydroxypropyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

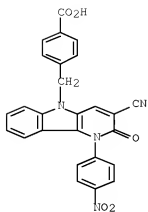
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PAGE 2-A

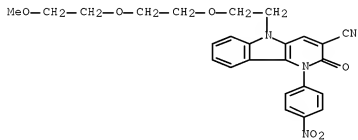


RN 869883-29-4 CAPLUS
CN Benzoic acid, 4-[[3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo-5H-pyrido[3,2-b]indol-5-yl]methyl]- (CA INDEX NAME)



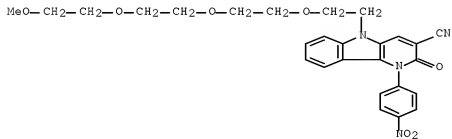
RN 869883-30-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-(2-methoxyethoxy)ethoxy]ethyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-31-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(3,6,9,12-tetraoxatridec-1-yl)- (CA INDEX NAME)



RN 869883-33-0 CAPLUS

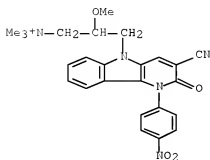
CN 5H-Pyrido[3,2-b]indole-5-propanaminium, 3-cyano-1,2-dihydro-beta-methoxy-

N,N,N-trimethyl-1-(4-nitrophenyl)-2-oxo-, sulfate (2:1) (CA INDEX NAME)

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CRN 869883-32-9

CMF C25 H26 N5 O4



CM 2

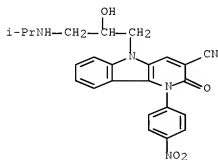
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CMF O4 S



RN 869883-34-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-hydroxy-3-[(1-methylethyl)amino]propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

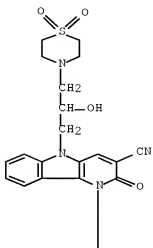


RN 869883-35-2 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-(1,1-dioxido-4-

thiomorpholinyl)-2-hydroxypropyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo-
(CA INDEX NAME)

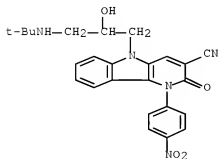
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PAGE 2-A

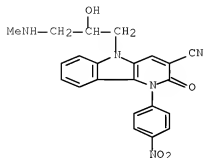


RN 869883-36-3 CAPLUS
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-[(1,1-dimethylethyl)amino]-2-hydroxypropyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



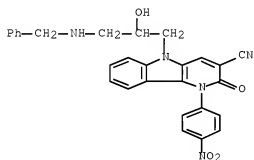
RN 869883-37-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-hydroxy-3-(methylamino)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



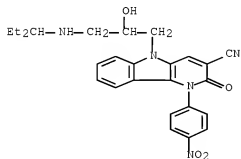
RN 869883-38-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-hydroxy-3-[(phenylmethyl)amino]propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-39-6 CAPLUS

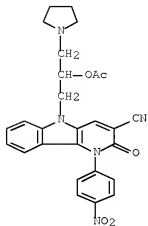
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-[(1-ethylpropyl)amino]-2-hydroxypropyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-41-0 CAPLUS

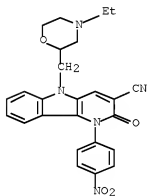
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[2-(acetyloxy)-3-(1-

pyrrolidinyl)propyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



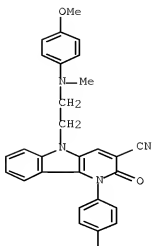
RN 869883-42-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[(4-ethyl-2-morpholinyl)methyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



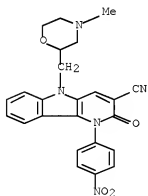
RN 869883-43-2 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-[(4-methoxyphenyl)methylamino]ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-44-3 CAPLUS

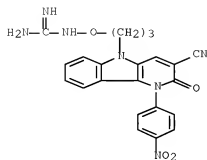
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[(4-methyl-2-morpholinyl)methyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-46-5 CAPLUS

CN Guanidine, N-[3-[3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo-5H-pyrido[3,2-b]indol-5-yl]propoxy]-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CRN 869883-45-4
 CMF C22 H19 N7 O4



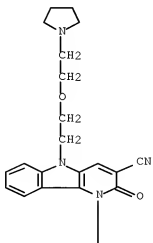
CM 2

CRN 76-05-1
 CMF C2 H F3 O2



RN 869883-47-6 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-[2-(1-pyrrolidinyl)ethoxy]ethyl]- (CA INDEX NAME)

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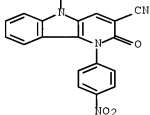




RN 869883-48-7 CAPLUS

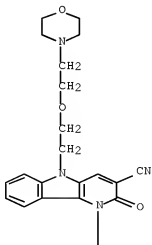
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[2-[2-(diethylamino)ethoxy]ethyl]-
2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

Et₂N-CH₂-CH₂-O-CH₂-CH₂



RN 869883-49-8 CAPLUS

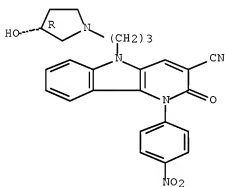
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-[2-(4-morpholinyl)ethoxy]ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



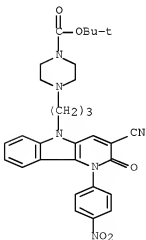


RN 869883-50-1 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[3-[(3R)-3-hydroxy-1-pyrrolidinyl]propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.

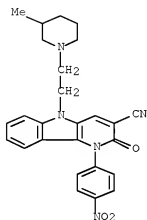


RN 869883-51-2 CAPLUS
 CN 1-Piperazinecarboxylic acid, 4-[3-[3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo-5H-pyrido[3,2-b]indol-5-yl]propyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



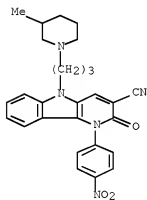
RN 869883-52-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-(3-methyl-1-piperidiny)ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



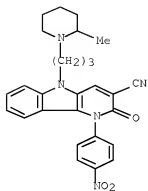
RN 869883-53-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[3-(3-methyl-1-piperidiny)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



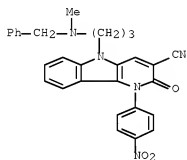
RN 869883-54-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[3-(2-methyl-1-piperidiny)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



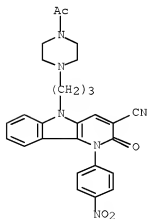
RN 869883-55-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[3-methyl(phenylmethyl)amino]propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



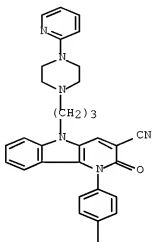
RN 869883-56-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-(4-acetyl-1-piperazinyl)propyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-57-8 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[3-[4-(2-pyridinyl)-1-piperazinyl]propyl]- (CA INDEX NAME)

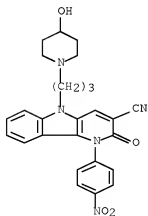
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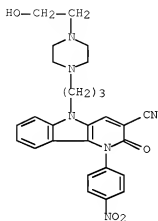
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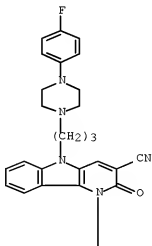
RN 869883-58-9 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[3-(4-hydroxy-1-piperidinyl)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-59-0 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[3-[4-(2-hydroxyethyl)-1-piperazinyl]propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-60-3 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-[4-(4-fluorophenyl)-1-piperazinyl]propyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

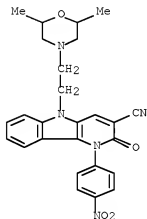


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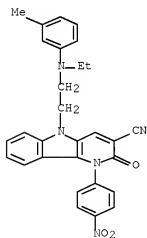
RN 869883-61-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[2-(2,6-dimethyl-4-morpholinyl)ethyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



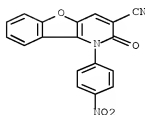
RN 869883-62-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[2-[ethyl(3-methylphenyl)amino]ethyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-63-6 CAPLUS

CN Benzofuro[3,2-b]pyridine-3-carbonitrile, 1,2-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



IT 304465-35-8P 698397-46-5P 869883-64-7P

869883-65-8P 869883-66-9P 869883-67-0P

869883-68-1P 869883-69-2P 869883-70-5P

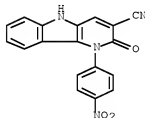
869883-71-6P 869883-72-7P 869883-73-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of dihydropyridoindolones and analogs as antiviral agents)

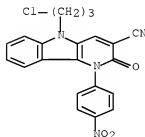
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CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



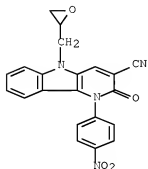
RN 698397-46-5 CAPLUS

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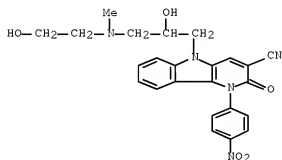
RN 869883-64-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-5-(2-oxiranylmethyl)-2-oxo- (CA INDEX NAME)



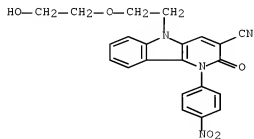
RN 869883-65-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-hydroxy-3-[(2-hydroxyethyl)methylamino]propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



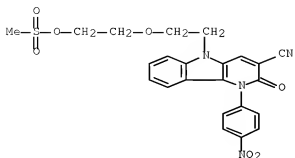
RN 869883-66-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-(2-hydroxyethoxy)ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



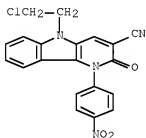
RN 869883-67-0 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-[2-(methylsulfonyl)oxy]ethoxy]ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



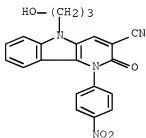
RN 869883-68-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-(2-chloroethyl)-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-69-2 CAPLUS

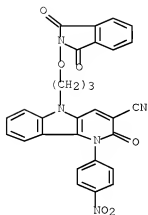
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-(3-hydroxypropyl)-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 869883-70-5 CAPLUS

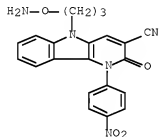
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-[(1,3-dihydro-1,3-dioxo-2H-

isindol-2-yl)oxy]propyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



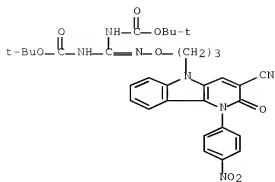
RN 869883-71-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-(aminooxy)propyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



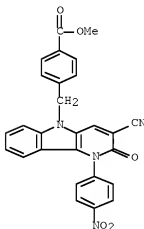
RN 869883-72-7 CAPLUS

CN Carbamic acid, [[3-[3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo-5H-pyrido[3,2-b]indol-5-yl]propoxy]carbonimidoyl]bis-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



RN 869883-73-8 CAPLUS

CN Benzoic acid, 4-[[3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo-5H-pyrido[3,2-b]indol-5-yl]methyl]-, methyl ester (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:453214 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 141:23513

TITLE: Preparation of substituted pyrido[3,2-b]indoles for use in pharmaceutical compositions for the treatment of HIV-infection

INVENTOR(S): Kesteley, Bart Rudolf Romanie; Van De Vreken, Wim; Kindermans, Natalie Maria Francisca; Canard, Maxime Francis Jean-Marie Ghislain; Hertogs, Kurt; Bettens, Eva; De Vroey Veronique, Corine Paul; Jochmans, Dirk Edward Desire

PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.

SOURCE: PCT Int. Appl., 91 pp.

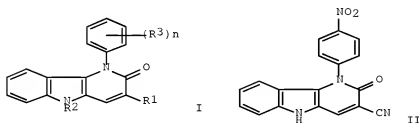
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004046143	A1	20040603	WO 2003-EP50837	20031114 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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PRIORITY APPLN. INFO.:			EP 2002-79783	A 20021115 <--
			US 2002-434950P	P 20021220 <--
			EP 2002-7983	A 20021115 <--
			WO 2003-EP50837	W 20031114 <--

OTHER SOURCE(S): MARPAT 141:23513
 GI



AB Pyrido[3,2-b]indoles, such as I [R1 = H, CN, halogen, carboxamide, carboxyl, etc.; R2 = H, alkyl, alkenyl, cycloalkyl, heterocyclyl, heterocyclylalkyl, etc.; R3 = NO2, CN, NH2, OH, CO2H, CONH2, methanimidamidyl, alkoxy, acyl, etc.; n = 1, 2, 3], were prepared for therapeutic use and anti-HIV agents. Thus, pyrido[3,2-b]indole II was prepared via a five step synthetic scheme starting from 1-acetyl-3- hydroxyindole, 4-nitroaniline and Et cyanoacetate.

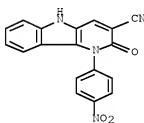
The prepared pyrido[3,2-b]indoles were tested for inhibition of HIV reverse transcriptase, for metabolism using human liver microsomal fractions and for anti-HIV activity.

IT 304465-35-8P 352548-47-1P 698396-45-1P
 698396-64-4P 698396-65-5P 698396-80-4P
 698396-93-9P 698396-97-3P 698396-98-4P
 698397-05-6P 698397-11-4P 698397-15-8P
 698397-18-1P 698397-19-2P 698397-25-0P
 698397-41-0P 698397-43-2P 698397-44-3P
 698397-45-4P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (preparation of substituted pyrido[3,2-b]indoles for use in pharmaceutical compns. for the treatment of HIV-infection)

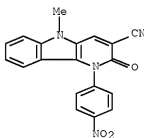
RN 304465-35-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-
 (CA INDEX NAME)



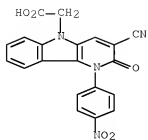
RN 352548-47-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



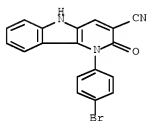
RN 698396-45-1 CAPLUS

CN 5H-Pyrido[3,2-b]indole-5-acetic acid, 3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



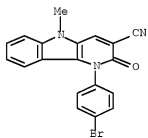
RN 698396-64-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-bromophenyl)-2,5-dihydro-2-oxo-
(CA INDEX NAME)



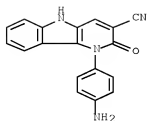
RN 698396-65-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-bromophenyl)-2,5-dihydro-5-
methyl-2-oxo- (CA INDEX NAME)



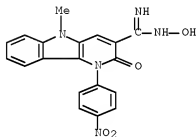
RN 698396-80-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-aminophenyl)-2,5-dihydro-2-oxo-
(CA INDEX NAME)



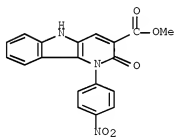
RN 698396-93-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carboximidamide, 2,5-dihydro-N-hydroxy-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



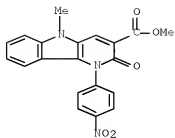
RN 698396-97-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carboxylic acid, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-, methyl ester (CA INDEX NAME)



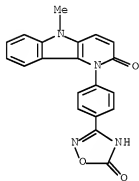
RN 698396-98-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carboxylic acid, 2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo-, methyl ester (CA INDEX NAME)



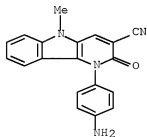
RN 698397-05-6 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(2,5-dihydro-5-oxo-1,2,4-oxadiazol-3-yl)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



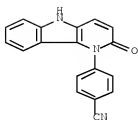
RN 698397-11-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-aminophenyl)-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



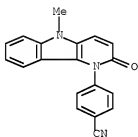
RN 698397-15-8 CAPLUS

CN Benzonitrile, 4-(2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA INDEX NAME)



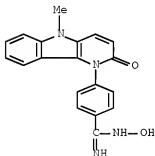
RN 698397-18-1 CAPLUS

CN Benzonitrile, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-
(CA INDEX NAME)



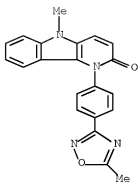
RN 698397-19-2 CAPLUS

CN Benzenecarboximidamide, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-N-hydroxy- (CA INDEX NAME)



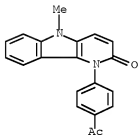
RN 698397-25-0 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]- (CA INDEX NAME)



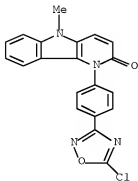
RN 698397-41-0 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-(4-acetylphenyl)-1,5-dihydro-5-methyl- (CA INDEX NAME)



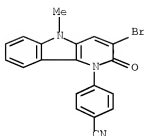
RN 698397-43-2 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(5-chloro-1,2,4-oxadiazol-3-yl)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



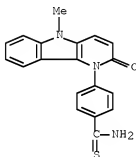
RN 698397-44-3 CAPLUS

CN Benzonitrile, 4-(3-bromo-2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA INDEX NAME)



RN 698397-45-4 CAPLUS

CN Benzenecarbothioamide, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA INDEX NAME)



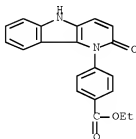
IT 698397-13-6

RL: PAC (Pharmacological activity); RCT (Reactant); THU (Therapeutic use);
BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)

(preparation of substituted pyrido[3,2-b]indoles for use in pharmaceutical
comps. for the treatment of HIV-infection)

RN 698397-13-6 CAPLUS

CN Benzoic acid, 4-(2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-, ethyl
ester (CA INDEX NAME)



IT 698396-30-4P 698396-31-5P 698396-32-5P

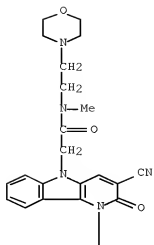
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 698397-24-9P 698397-26-1P 698397-27-2P
 698397-28-3P 698397-29-4P 698397-30-7P
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 698397-34-1P 698397-35-2P 698397-36-3P
 698397-37-4P 698397-38-5P 698397-39-6P
 698397-40-9P 698397-42-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

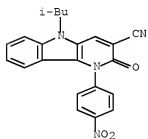
(preparation of substituted pyrido[3,2-b]indoles for use in pharmaceutical
 compns. for the treatment of HIV-infection)

RN 698396-30-4 CAPLUS

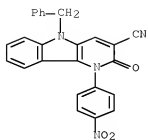
CN 5H-Pyrido[3,2-b]indole-5-acetamide, 3-cyano-1,2-dihydro-N-methyl-N-[2-(4-
 morpholinyl)ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



RN 698396-31-5 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-(2-methylpropyl)-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)

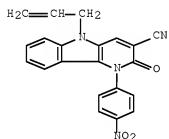


RN 698396-32-6 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(phenylmethyl)- (CA INDEX NAME)



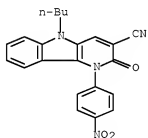
RN 698396-33-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(2-propen-1-yl)- (CA INDEX NAME)



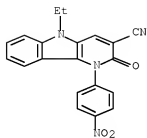
RN 698396-34-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-butyl-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



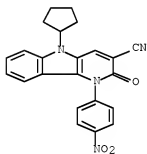
RN 698396-35-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-ethyl-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



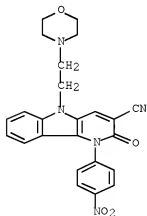
RN 698396-36-0 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-cyclopentyl-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



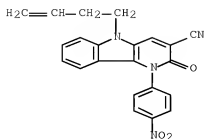
RN 698396-37-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-(4-morpholinyl)ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



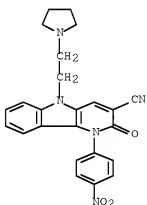
RN 698396-38-2 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-(3-buten-1-yl)-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



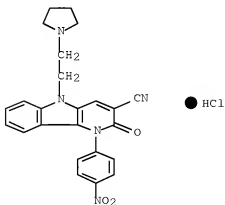
RN 698396-39-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-(1-pyrrolidinyl)ethyl]- (CA INDEX NAME)



RN 698396-40-6 CAPLUS

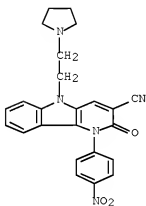
CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-(1-pyrrolidinyl)ethyl]-, hydrochloride (1:1) (CA INDEX NAME)



RN 698396-41-7 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-(1-pyrrolidinyl)ethyl]-, ethanedioate (1:1) (CA INDEX NAME)

CM 1

CRN 698396-39-3
 CMF C24 H21 N5 O3



CM 2

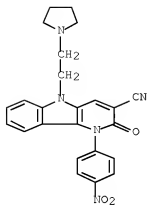
CRN 144-62-7
 CMF C2 H2 O4



RN 698396-42-8 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-(1-pyrrolidinyl)ethyl]-, methanesulfonate (1:1) (CA INDEX NAME)

CM 1

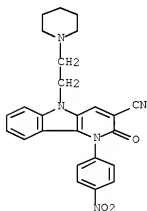
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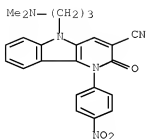
CM 2
 CRN 75-75-2
 CMF C H4 O3 S



RN 698396-43-9 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[2-(1-piperidinyl)ethyl]- (CA INDEX NAME)

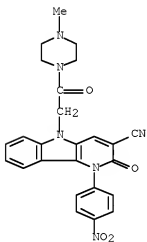


RN 698396-44-0 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[3-(dimethylamino)propyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



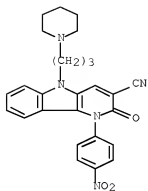
RN 698396-46-2 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-(4-methyl-1-piperazinyl)-2-oxoethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



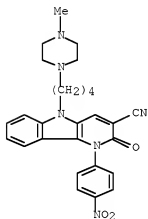
RN 698396-47-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[3-(1-piperidinyl)propyl]- (CA INDEX NAME)



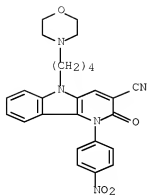
RN 698396-48-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[4-(4-methyl-1-piperazinyl)butyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



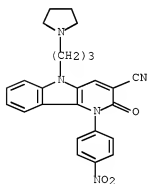
RN 698396-49-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[4-(4-morpholinyl)butyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



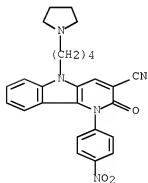
RN 698396-50-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[3-(1-pyrrolidinyl)propyl]- (CA INDEX NAME)



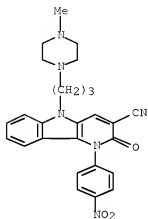
RN 698396-51-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[4-(1-pyrrolidinyl)butyl]- (CA INDEX NAME)



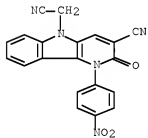
RN 698396-52-0 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[3-(4-methyl-1-piperazinyl)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



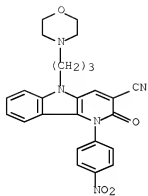
RN 698396-53-1 CAPLUS

CN 5H-Pyrido[3,2-b]indole-5-acetonitrile, 3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



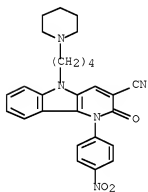
RN 698396-54-2 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[3-(4-morpholinyl)propyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



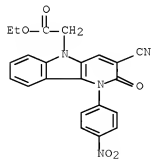
RN 698396-55-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-[4-(1-piperidinyl)butyl]- (CA INDEX NAME)



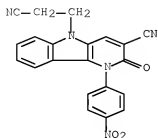
RN 698396-56-4 CAPLUS

CN 5H-Pyrido[3,2-b]indole-5-acetic acid, 3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo-, ethyl ester (CA INDEX NAME)



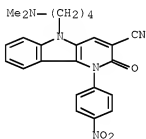
RN 698396-57-5 CAPLUS

CN 5H-Pyrido[3,2-b]indole-5-propanenitrile, 3-cyano-1,2-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



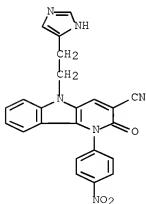
RN 698396-58-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-[4-(dimethylamino)butyl]-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



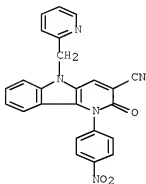
RN 698396-59-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-[2-(1H-imidazol-5-yl)ethyl]-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



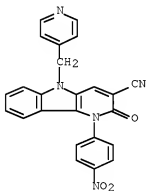
RN 698396-60-0 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(2-pyridinylmethyl)- (CA INDEX NAME)



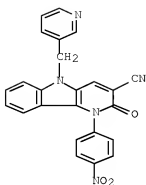
RN 698396-61-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(4-pyridinylmethyl)- (CA INDEX NAME)



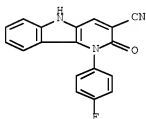
RN 698396-62-2 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-5-(3-pyridinylmethyl)- (CA INDEX NAME)



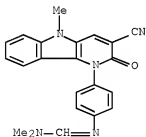
RN 698396-63-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-fluorophenyl)-2,5-dihydro-2-oxo- (CA INDEX NAME)



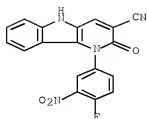
RN 698396-66-6 CAPLUS

CN Methanimidamide, N'-[4-(3-cyano-2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)phenyl]-N,N-dimethyl- (CA INDEX NAME)



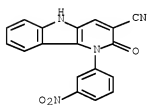
RN 698396-67-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-fluoro-3-nitrophenyl)-2,5-dihydro-2-oxo- (CA INDEX NAME)



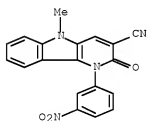
RN 698396-68-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(3-nitrophenyl)-2-oxo-
(CA INDEX NAME)



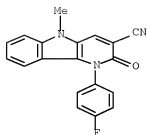
RN 698396-69-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-1-(3-nitrophenyl)-2-oxo- (CA INDEX NAME)



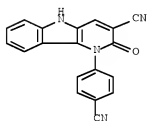
RN 698396-70-2 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-fluorophenyl)-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



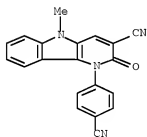
RN 698396-71-3 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-2-oxo-
(CA INDEX NAME)



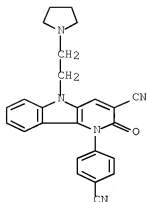
RN 698396-72-4 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-5-methyl-2-oxo-
(CA INDEX NAME)



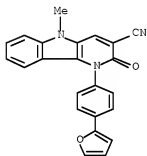
RN 698396-73-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-2-oxo-5-[2-(1-pyrrolidinyl)ethyl]-
(CA INDEX NAME)



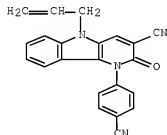
RN 698396-74-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-[4-(2-furanyl)phenyl]-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



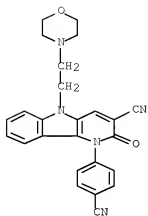
RN 698396-75-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-2-oxo-5-(2-propen-1-yl)- (CA INDEX NAME)



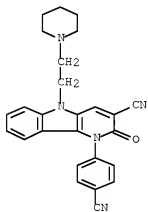
RN 698396-76-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-5-[2-(4-morpholinyl)ethyl]-2-oxo- (CA INDEX NAME)



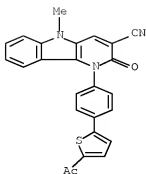
RN 698396-77-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-(4-cyanophenyl)-2,5-dihydro-2-oxo-5-[2-(1-piperidinyl)ethyl]- (CA INDEX NAME)



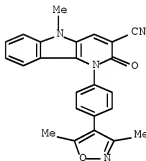
RN 698396-78-0 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-[4-(5-acetyl-2-thienyl)phenyl]-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



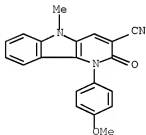
RN 698396-79-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-[4-(3,5-dimethyl-4-isoxazolyl)phenyl]-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



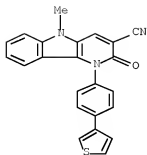
RN 698396-81-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-methoxyphenyl)-5-methyl-2-oxo- (CA INDEX NAME)



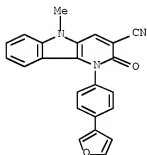
RN 698396-82-6 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-2-oxo-1-[4-(3-thienyl)phenyl]- (CA INDEX NAME)



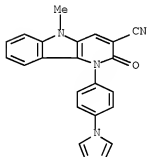
RN 698396-83-7 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 1-[4-(3-furanyl)phenyl]-2,5-dihydro-5-methyl-2-oxo- (CA INDEX NAME)



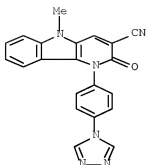
RN 698396-84-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-2-oxo-1-[4-(1H-pyrrol-1-yl)phenyl]- (CA INDEX NAME)



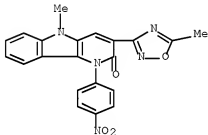
RN 698396-85-9 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-5-methyl-2-oxo-1-[4-(4H-1,2,4-triazol-4-yl)phenyl]- (CA INDEX NAME)



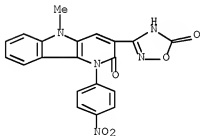
RN 698396-86-0 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-3-(5-methyl-1,2,4-oxadiazol-3-yl)-1-(4-nitrophenyl)- (CA INDEX NAME)



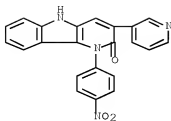
RN 698396-87-1 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 3-(2,5-dihydro-5-oxo-1,2,4-oxadiazol-3-yl)-1,5-dihydro-5-methyl-1-(4-nitrophenyl)- (CA INDEX NAME)

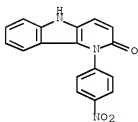


RN 698396-88-2 CAPLUS

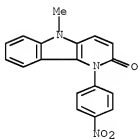
CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-(4-nitrophenyl)-3-(3-pyridinyl)- (CA INDEX NAME)



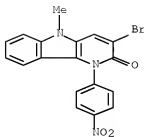
RN 698396-89-3 CAPLUS
 CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-(4-nitrophenyl)- (CA INDEX NAME)



RN 698396-90-6 CAPLUS
 CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-(4-nitrophenyl)- (CA INDEX NAME)

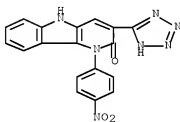


RN 698396-91-7 CAPLUS
 CN 2H-Pyrido[3,2-b]indol-2-one, 3-bromo-1,5-dihydro-5-methyl-1-(4-nitrophenyl)- (CA INDEX NAME)



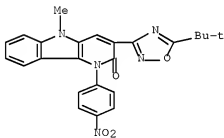
RN 698396-92-8 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-(4-nitrophenyl)-3-(2H-tetrazol-5-yl)- (CA INDEX NAME)



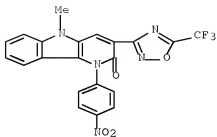
RN 698396-94-0 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 3-[5-(1,1-dimethylethyl)-1,2,4-oxadiazol-3-yl]-1,5-dihydro-5-methyl-1-(4-nitrophenyl)- (CA INDEX NAME)



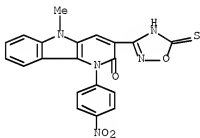
RN 698396-95-1 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-(4-nitrophenyl)-3-[5-(trifluoromethyl)-1,2,4-oxadiazol-3-yl]- (CA INDEX NAME)



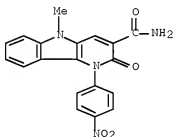
RN 698396-96-2 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 3-(2,5-dihydro-5-thioxo-1,2,4-oxadiazol-3-yl)-1,5-dihydro-5-methyl-1-(4-nitrophenyl)- (CA INDEX NAME)



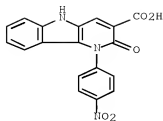
RN 698396-99-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carboxamide, 2,5-dihydro-5-methyl-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



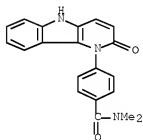
RN 698397-00-1 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carboxylic acid, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



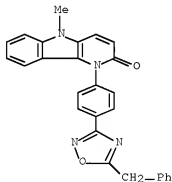
RN 698397-01-2 CAPLUS

CN Benzamide, 4-(2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-N,N-dimethyl-
(CA INDEX NAME)



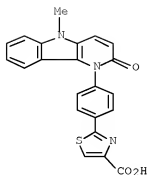
RN 698397-02-3 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-[5-(phenylmethyl)-
1,2,4-oxadiazol-3-yl]phenyl]- (CA INDEX NAME)



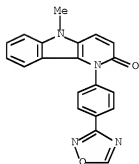
RN 698397-03-4 CAPLUS

CN 4-Thiazolecarboxylic acid, 2-[4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-
b]indol-1-yl)phenyl]- (CA INDEX NAME)



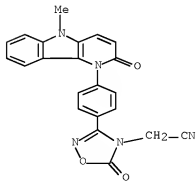
RN 698397-04-5 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-(1,2,4-oxadiazol-3-yl)phenyl]- (CA INDEX NAME)



RN 698397-06-7 CAPLUS

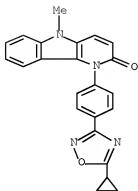
CN 1,2,4-Oxadiazole-4(5H)-acetonitrile, 3-[4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)phenyl]-5-oxo- (CA INDEX NAME)



RN 698397-07-8 CAPLUS

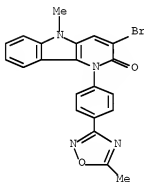
CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(5-cyclopropyl-1,2,4-oxadiazol-3-

yl)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



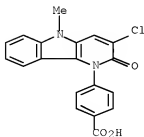
RN 698397-08-9 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 3-bromo-1,5-dihydro-5-methyl-1-[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]- (CA INDEX NAME)



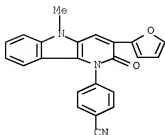
RN 698397-09-0 CAPLUS

CN Benzoic acid, 4-(3-chloro-2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA INDEX NAME)



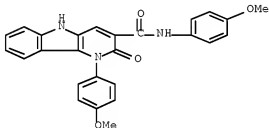
RN 698397-10-3 CAPLUS

CN Benzonitrile, 4-[3-(2-furanyl)-2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl]- (CA INDEX NAME)



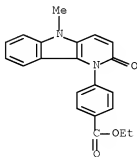
RN 698397-12-5 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carboxamide, 2,5-dihydro-N,1-bis(4-methoxyphenyl)-2-oxo- (CA INDEX NAME)



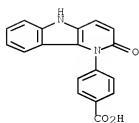
RN 698397-14-7 CAPLUS

CN Benzoic acid, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-, ethyl ester (CA INDEX NAME)



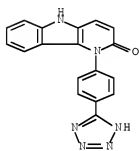
RN 698397-16-9 CAPLUS

CN Benzoic acid, 4-(2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA INDEX NAME)



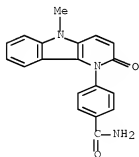
RN 698397-17-0 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-[4-(2H-tetrazol-5-yl)phenyl]-
(CA INDEX NAME)



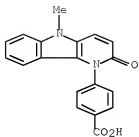
RN 698397-20-5 CAPLUS

CN Benamide, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)- (CA
INDEX NAME)



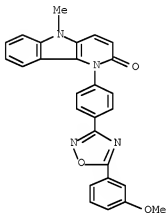
RN 698397-21-6 CAPLUS

CN Benzoic acid, 4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)-
(CA INDEX NAME)



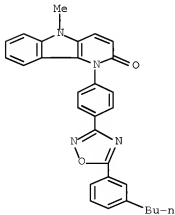
RN 698397-22-7 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-[4-[5-(3-methoxyphenyl)-1,2,4-oxadiazol-3-yl]phenyl]-5-methyl- (CA INDEX NAME)



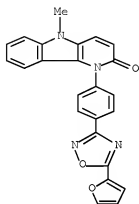
RN 698397-23-8 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-[5-(3-butyphenyl)-1,2,4-oxadiazol-3-yl]phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



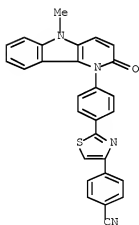
RN 698397-24-9 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-[5-(2-furanyl)-1,2,4-oxadiazol-3-yl]phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



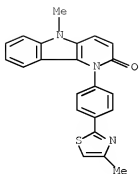
RN 698397-26-1 CAPLUS

CN Benzonitrile, 4-[2-[4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)phenyl]-4-thiazolyl]- (CA INDEX NAME)



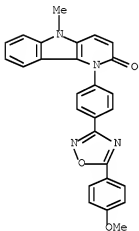
RN 698397-27-2 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-(4-methyl-2-thiazolyl)phenyl]- (CA INDEX NAME)



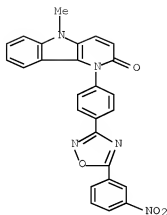
RN 698397-28-3 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-[4-[5-(4-methoxyphenyl)-1,2,4-oxadiazol-3-yl]phenyl]-5-methyl- (CA INDEX NAME)



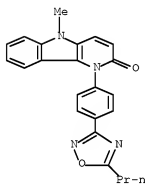
RN 698397-29-4 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-[5-(3-nitrophenyl)-1,2,4-oxadiazol-3-yl]phenyl]- (CA INDEX NAME)



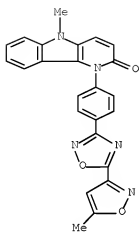
RN 698397-30-7 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-(5-propyl-1,2,4-oxadiazol-3-yl)phenyl]- (CA INDEX NAME)



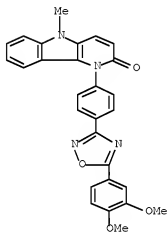
RN 698397-31-8 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-[5-(5-methyl-3-isoxazolyl)-1,2,4-oxadiazol-3-yl]phenyl]- (CA INDEX NAME)



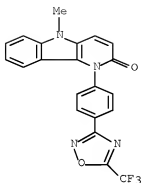
RN 698397-32-9 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-[5-(3,4-dimethoxyphenyl)-1,2,4-oxadiazol-3-yl]phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



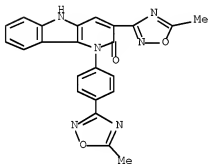
RN 698397-33-0 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-[5-(trifluoromethyl)-1,2,4-oxadiazol-3-yl]phenyl]- (CA INDEX NAME)



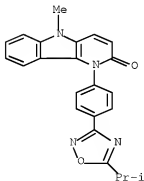
RN 698397-34-1 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-3-(5-methyl-1,2,4-oxadiazol-3-yl)-1-[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]- (CA INDEX NAME)



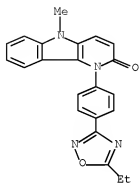
RN 698397-35-2 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-5-methyl-1-[4-[5-(1-methylethyl)-1,2,4-oxadiazol-3-yl]phenyl]- (CA INDEX NAME)

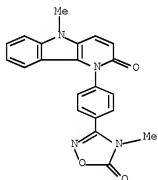


RN 698397-36-3 CAPLUS

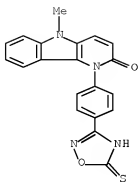
CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(5-ethyl-1,2,4-oxadiazol-3-yl)phenyl]-
1,5-dihydro-5-methyl- (CA INDEX NAME)



RN 698397-37-4 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(4,5-dihydro-4-methyl-5-oxo-1,2,4-
oxadiazol-3-yl)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)

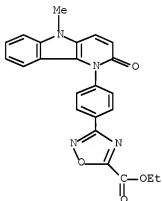


RN 698397-38-5 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-(2,5-dihydro-5-thioxo-1,2,4-oxadiazol-3-
yl)phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



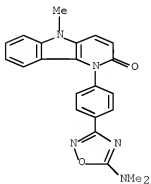
RN 698397-39-6 CAPLUS

CN 1,2,4-Oxadiazole-5-carboxylic acid, 3-[4-(2,5-dihydro-5-methyl-2-oxo-1H-pyrido[3,2-b]indol-1-yl)phenyl]-, ethyl ester (CA INDEX NAME)

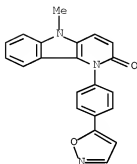


RN 698397-40-9 CAPLUS

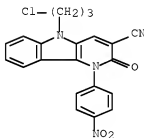
CN 2H-Pyrido[3,2-b]indol-2-one, 1-[4-[5-(dimethylamino)-1,2,4-oxadiazol-3-yl]phenyl]-1,5-dihydro-5-methyl- (CA INDEX NAME)



RN 698397-42-1 CAPLUS
 CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-[4-(5-isoxazolyl)phenyl]-5-methyl- (CA INDEX NAME)



IT 698397-46-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of substituted pyrido[3,2-b]indoles for use in pharmaceutical compns. for the treatment of HIV-infection)
 RN 698397-46-5 CAPLUS
 CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 5-(3-chloropropyl)-2,5-dihydro-1-(4-nitrophenyl)-2-oxo- (CA INDEX NAME)



L11 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2004:30565 CAPLUS Full-text
 DOCUMENT NUMBER: 141:243275
 TITLE: Synthesis of derivatives of a new heterocyclic system, indolo[2,3-f][1,7]naphthyridine
 AUTHOR(S): Rastorgueva, N. A.; Ryabova, S. Yu.; Lisitsa, E. A.; Alekseeva, L. M.; Granik, V. G.
 CORPORATE SOURCE: Scientific Research Institute of Organic Intermediates and Dyes, Federal State Unitary Enterprise State Scientific Center, Moscow, 123995, Russia
 SOURCE: Russian Chemical Bulletin (Translation of Izvestiya Akademii Nauk, Seriya Khimicheskaya) (2003), 52(10), 2149-2156
 CODEN: RCBUEY; ISSN: 1066-5285
 PUBLISHER: Kluwer Academic/Consultants Bureau

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:243275

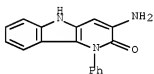
AB 3-(N-Aryl-N-chloroacetyl)amino-2-formylindoles were converted into 3-amino-1-aryl-2-oxo-1,2-dihydropyrido[3,2-b]indoles, which were used to synthesize derivs. of a new heterocyclic system, namely, indolo[2,3-f][1,7]naphthyridine. The structures of the resulting compds. were proved by IR and ¹H NMR spectroscopy and mass spectrometry.

IT 474642-19-8

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of indolonaphthyridines via conversion of corresponding aminoaryloxodihydropyridoindoles)

RN 474642-19-8 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 3-amino-1,5-dihydro-1-phenyl- (CA INDEX NAME)



IT 474089-16-2P 578697-68-4P 696647-33-3P

696647-49-1P 696647-56-0P 749920-83-0P

749920-84-1P 749920-85-2P 749920-86-3P

749920-88-5P 749920-89-6P 749920-91-0P

749920-92-1P 749920-93-2P 749920-94-3P

749920-95-4P 749920-96-5P 749920-97-6P

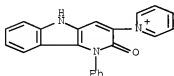
749920-98-7P 749921-00-4P 749921-01-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of indolonaphthyridines via conversion of corresponding aminoaryloxodihydropyridoindoles)

RN 474089-16-2 CAPLUS

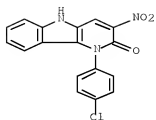
CN Pyridinium, 1-(2,5-dihydro-2-oxo-1-phenyl-1H-pyrido[3,2-b]indol-3-yl)-, chloride (1:1) (CA INDEX NAME)



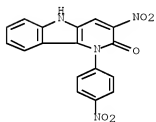
● Cl⁻

RN 578697-68-4 CAPLUS

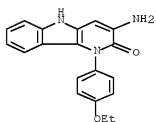
CN 2H-Pyrido[3,2-b]indol-2-one, 1-(4-chlorophenyl)-1,5-dihydro-3-nitro- (CA INDEX NAME)



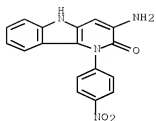
RN 696647-33-3 CAPLUS
 CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-3-nitro-1-(4-nitrophenyl)- (CA
 INDEX NAME)



RN 696647-49-1 CAPLUS
 CN 2H-Pyrido[3,2-b]indol-2-one, 3-amino-1-(4-ethoxyphenyl)-1,5-dihydro- (CA
 INDEX NAME)

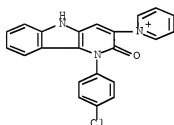


RN 696647-56-0 CAPLUS
 CN 2H-Pyrido[3,2-b]indol-2-one, 3-amino-1,5-dihydro-1-(4-nitrophenyl)- (CA
 INDEX NAME)



RN 749920-83-0 CAPLUS

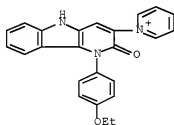
CN Pyridinium, 1-[1-(4-chlorophenyl)-2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-3-yl]-, chloride (1:1) (CA INDEX NAME)



● Cl⁻

RN 749920-84-1 CAPLUS

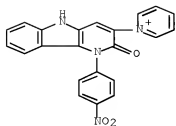
CN Pyridinium, 1-[1-(4-ethoxyphenyl)-2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-3-yl]-, chloride (1:1) (CA INDEX NAME)



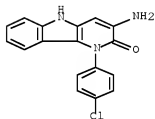
● Cl⁻

RN 749920-85-2 CAPLUS

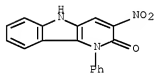
CN Pyridinium, 1-[2,5-dihydro-1-(4-nitrophenyl)-2-oxo-1H-pyrido[3,2-b]indol-3-yl]-, chloride (1:1) (CA INDEX NAME)



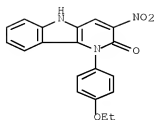
RN 749920-86-3 CAPLUS
 CN 2H-Pyrido[3,2-b]indol-2-one, 3-amino-1-(4-chlorophenyl)-1,5-dihydro- (CA INDEX NAME)



RN 749920-88-5 CAPLUS
 CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-3-nitro-1-phenyl- (CA INDEX NAME)

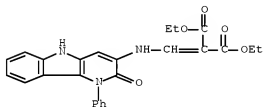


RN 749920-89-6 CAPLUS
 CN 2H-Pyrido[3,2-b]indol-2-one, 1-(4-ethoxyphenyl)-1,5-dihydro-3-nitro- (CA INDEX NAME)



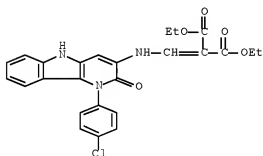
RN 749920-91-0 CAPLUS

CN Propanedioic acid, 2-[[1-(4-ethoxyphenyl)-2-oxo-1H-pyrido[3,2-b]indol-3-yl]amino]methylenenitro-, 1,3-diethyl ester (CA INDEX NAME)



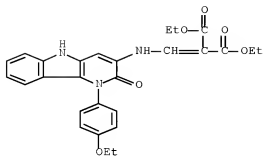
RN 749920-92-1 CAPLUS

CN Propanedioic acid, 2-[[1-(4-chlorophenyl)-2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-3-yl]amino]methylenenitro-, 1,3-diethyl ester (CA INDEX NAME)



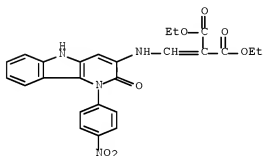
RN 749920-93-2 CAPLUS

CN Propanedioic acid, 2-[[1-(4-ethoxyphenyl)-2,5-dihydro-2-oxo-1H-pyrido[3,2-b]indol-3-yl]amino]methylenenitro-, 1,3-diethyl ester (CA INDEX NAME)



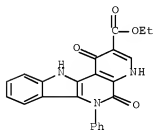
RN 749920-94-3 CAPLUS

CN Propanedioic acid, 2-[[[2,5-dihydro-1-(4-nitrophenyl)-2-oxo-1H-pyrido[3,2-b]indol-3-yl]amino]methylene]-, 1,3-diethyl ester (CA INDEX NAME)



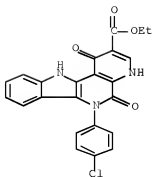
RN 749920-95-4 CAPLUS

CN 1H-Indolo[2,3-f][1,7]naphthyridine-2-carboxylic acid, 4,5,6,11-tetrahydro-1,5-dioxo-6-phenyl-, ethyl ester (CA INDEX NAME)



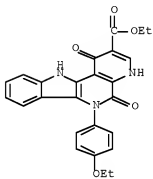
RN 749920-96-5 CAPLUS

CN 1H-Indolo[2,3-f][1,7]naphthyridine-2-carboxylic acid, 6-(4-chlorophenyl)-4,5,6,11-tetrahydro-1,5-dioxo-, ethyl ester (CA INDEX NAME)



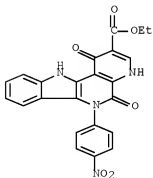
RN 749920-97-6 CAPLUS

CN 1H-Indolo[2,3-f][1,7]naphthyridine-2-carboxylic acid, 6-(4-ethoxyphenyl)-4,5,6,11-tetrahydro-1,5-dioxo-, ethyl ester (CA INDEX NAME)



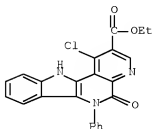
RN 749920-98-7 CAPLUS

CN 1H-Indolo[2,3-f][1,7]naphthyridine-2-carboxylic acid, 4,5,6,11-tetrahydro-6-(4-nitrophenyl)-1,5-dioxo-, ethyl ester (CA INDEX NAME)



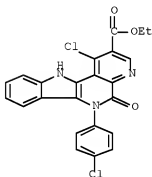
RN 749921-00-4 CAPLUS

CN 5H-Indolo[2,3-f][1,7]naphthyridine-2-carboxylic acid, 1-chloro-6,11-dihydro-5-oxo-6-phenyl-, ethyl ester (CA INDEX NAME)



RN 749921-01-5 CAPLUS

CN 5H-Indolo[2,3-f][1,7]naphthyridine-2-carboxylic acid, 1-chloro-6-(4-chlorophenyl)-6,11-dihydro-5-oxo-, ethyl ester (CA INDEX NAME)



IT 474642-22-3P 700848-07-3P 700848-08-4P

749920-87-4P 749920-90-9P 749920-99-8P

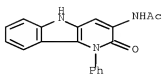
749921-02-6P 749921-03-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of indolonaphthyridines via conversion of corresponding aminoaryloxodihydropyridoindoles)

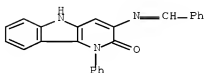
RN 474642-22-3 CAPLUS

CN Acetamide, N-(2,5-dihydro-2-oxo-1-phenyl-1H-pyrido[3,2-b]indol-3-yl)- (CA INDEX NAME)



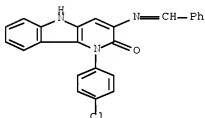
RN 700848-07-3 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1,5-dihydro-1-phenyl-3-
[(phenylmethylene)amino]- (CA INDEX NAME)



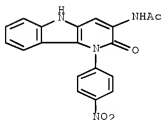
RN 700848-08-4 CAPLUS

CN 2H-Pyrido[3,2-b]indol-2-one, 1-(4-chlorophenyl)-1,5-dihydro-3-
[(phenylmethylene)amino]- (CA INDEX NAME)



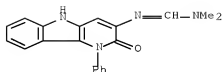
RN 749920-87-4 CAPLUS

CN Acetamide, N-[2,5-dihydro-1-(4-nitrophenyl)-2-oxo-1H-pyrido[3,2-b]indol-3-
yl]- (CA INDEX NAME)



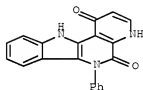
RN 749920-90-9 CAPLUS

CN Methanimidamide, N'-(2,5-dihydro-2-oxo-1-phenyl-1H-pyrido[3,2-b]indol-3-
yl)-N,N-dimethyl- (CA INDEX NAME)



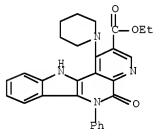
RN 749920-99-8 CAPLUS

CN 1H-Indolo[2,3-f][1,7]naphthyridine-1,5(4H)-dione, 6,11-dihydro-6-phenyl-
(CA INDEX NAME)



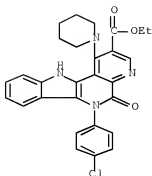
RN 749921-02-6 CAPLUS

CN 5H-Indolo[2,3-f][1,7]naphthyridine-2-carboxylic acid, 6,11-dihydro-5-oxo-6-
phenyl-1-(1-piperidinyl)-, ethyl ester (CA INDEX NAME)



RN 749921-03-7 CAPLUS

CN 5H-Indolo[2,3-f][1,7]naphthyridine-2-carboxylic acid, 6-(4-chlorophenyl)-
6,11-dihydro-5-oxo-1-(1-piperidinyl)-, ethyl ester (CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:483896 CAPLUS Full-text

DOCUMENT NUMBER: 137:352993

TITLE: Synthesis and properties of [1,4]diazepino[6,5-b]indoles

AUTHOR(S): Lantsetti, N. A.; Ryabova, S. Yu.; Alekseeva, L. M.; Shashkov, A. S.; Granik, V. G.

CORPORATE SOURCE: State Scientific Center of the Russian Federation "Organic Intermediate Products and Dyes Institute" (NIOPIK), Moscow, 103787, Russia

SOURCE: Russian Chemical Bulletin (Translation of Izvestiya Akademii Nauk, Seriya Khimicheskaya) (2002) 51(3), 506-512

CODEN: RCBUEY; ISSN: 1066-5285

PUBLISHER: Kluwer Academic/Consultants Bureau

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:352993

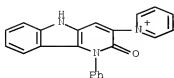
AB 1-Aryl-2-oxo-1,2,3,6-tetrahydro[1,4]diazepino[6,5-b]indole N-oxides were synthesized based on 3-(N'-aryl-N'-chloroacetyl)amino-2-formylindoles. Deoxdn. of 2-oxo-1-phenyl-1,2,3,6-tetrahydro[1,4]diazepino[6,5-b]indole N-oxide afforded 1,2,3,6-tetrahydro- and 1,2,3,4,5,6-hexahydro[1,4]diazepino[6,5-b]indole derivs. A new approach to the synthesis of pyrido[3,2-b]indole and pyrimido[5,4-b]indole derivs. was developed.

IT 474089-16-2P 474642-19-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and properties of [1,4]diazepino[6,5-b]indoles)

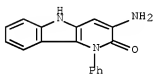
RN 474089-16-2 CAPLUS

CN Pyridinium, 1-(2,5-dihydro-2-oxo-1-phenyl-1H-pyrido[3,2-b]indol-3-yl)-, chloride (1:1) (CA INDEX NAME)

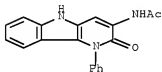


● Cl⁻

RN 474642-19-8 CAPLUS
CN 2H-Pyrido[3,2-b]indol-2-one, 3-amino-1,5-dihydro-1-phenyl- (CA INDEX NAME)



IT 474642-22-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and properties of [1,4]diazepino[6,5-b]indoles)
RN 474642-22-3 CAPLUS
CN Acetamide, N-(2,5-dihydro-2-oxo-1-phenyl-1H-pyrido[3,2-b]indol-3-yl)- (CA INDEX NAME)



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2002:100282 CAPLUS [Full-text](#)
DOCUMENT NUMBER: 137:33234
TITLE: New approach to the functionalization of
δ-carboline derivatives
AUTHOR(S): Ryabova, S. Yu.; Alekseeva, L. M.; Lisitza, E. A.;
Shashkov, A. S.; Chernyshev, V. V.; Tichomirova, G.
B.; Goyzman, M. S.; Granik, V. G.
CORPORATE SOURCE: Russian Federation State Scientific Center "Scientific
Research Institute of Organic Intermediates and Dyes",
Moscow, 103787, Russia
SOURCE: Russian Chemical Bulletin (Translation of Izvestiya

Akademii Nauk, Seriya Khimicheskaya) (2901),
50(8), 1449-1456
CODEN: RCBUEY; ISSN: 1066-5285
Kluwer Academic/Consultants Bureau
Journal
English
CASREACT 137:33234

PUBLISHER:
DOCUMENT TYPE:
LANGUAGE:
OTHER SOURCE(S):

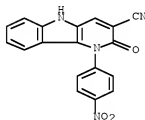
AB The possibility of transformation of 3-cyano-1-p-nitrophenyl- δ -carbolin-2-one into 2-amino-3-cyano-1-p-nitrophenyl-1H-pyrido[3,2-b]indole derivs. and 2-imino-3-cyano-1-p-nitrophenyl-5H-pyrido[3,2-b]indole derivs. (δ -carbolines) is demonstrated. Methylation of 1-p-nitrophenyl-2-piperidino-1H- δ -carboline followed by treatment with acetone in an alkaline medium yields 4-acetonyl-5-methyl-1,4-dihydro-5H-pyrido[3,2-b]indole derivative. The rearrangement of 2-arylimino-3-cyano-1-p-nitrophenyl-5H-pyrido[3,2-b]indoles into 2-(aryl)nitrophenylamino-3-cyano-5H-pyrido[3,2-b]indoles was accomplished on heating above the m.p. or on treatment with potassium tert-butoxide. The structures of the resulting compds. were proven by 1H and 13C NMR spectroscopy and x-ray diffraction anal.

IT 304465-35-8

RL: RCT (Reactant); RACT (Reactant or reagent)
(new approach to the functionalization of δ -carboline derivs. via
methylation followed by rearrangement)

RN 304465-35-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-
(CA INDEX NAME)



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:643354 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 133:335174

TITLE: 1H-Pyrido[3,2-b]indoles. Synthesis and investigation
of some their spectroscopic and chemical properties

RYABOVA, S. YU.; ALEKSEEVA, L. M.; GRANIK, B. G.

CORPORATE SOURCE: RF State Scientific Center "NIOPIK", Moscow, 103787,
Russia

SOURCE: Chemistry of Heterocyclic Compounds (New
York) (Translation of Khimiya Geterotsiklicheskih
Soedinenii) (2000), 36(3), 301-306
CODEN: CHCCAL; ISSN: 0009-3122

PUBLISHER: Consultants Bureau

DOCUMENT TYPE: Journal

LANGUAGE: English

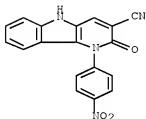
OTHER SOURCE(S): CASREACT 133:335174

AB On boiling in CF₃CO₂H, 2-(2-cyanovinyl)-3-[(4-nitrophenyl)amino]indoles are cyclized into the corresponding pyrido[3,2-b]indoles through activation of the CN group. Thermal cyclization of an Et α -cyano- β -indolylacrylate occurs with participation of the more reactive CO₂Et group to give the resp. 3-cyanopyrido[3,2-b]indole.

IT 304465-35-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of pyrido[3,2-b]indoles)

RN 304465-35-8 CAPLUS

CN 1H-Pyrido[3,2-b]indole-3-carbonitrile, 2,5-dihydro-1-(4-nitrophenyl)-2-oxo-
 (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:684895 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 132:64217

TITLE: N-Aryl heterocycles via coupling reactions with arylboronic acids

AUTHOR(S): Mederski, Werner W. K. R.; Lefort, Marina; Germann, Martina; Kux, Dieter

CORPORATE SOURCE: Preclinical Pharmaceutical Research, Merck KGaA, Darmstadt, 64271, Germany

SOURCE: Tetrahedron (1999), 55(44), 12757-12770
 CODEN: TETRAE; ISSN: 0040-4020

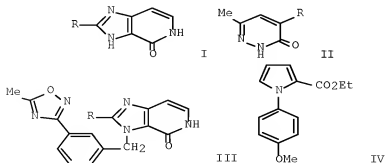
PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 132:64217

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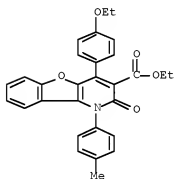


AB Compds. having a partial 2-pyridone structure, e.g., I (R = H, CHMe₂, n-Bu), or 3-pyridazinones, II (R = H, Me), can be selectively N-arylated with phenylboronic acids according to the procedure described by Chan and Lam. This procedure leads to N5-arylated imidazo[4,5-c]pyridin-4-ones, e.g., III, precursors of potent factor Xa inhibitors. In addition, the synthesis of N-aryl substituted pyrrole- and indole-2-carboxylic acid esters, e.g., IV, is described. In the indole series, this procedure offers a flexible entry in the synthesis of different 1,3-diaryl-2- carboxyindoles.

IT 253274-08-7P 253274-11-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of N-aryl heterocycles via coupling with arylboronic acids)

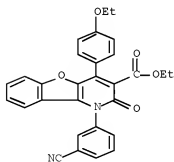
RN 253274-08-7 CAPLUS

CN Benzofuro[3,2-b]pyridine-3-carboxylic acid, 4-(4-ethoxyphenyl)-1,2-dihydro-1-(4-methylphenyl)-2-oxo-, ethyl ester (CA INDEX NAME)



RN 253274-11-2 CAPLUS

CN Benzofuro[3,2-b]pyridine-3-carboxylic acid, 1-(3-cyanophenyl)-4-(4-ethoxyphenyl)-1,2-dihydro-2-oxo-, ethyl ester (CA INDEX NAME)



REFERENCE COUNT:

19

THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FULL ESTIMATED COST

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

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-8.80

STN INTERNATIONAL LOGOFF AT 16:15:10 ON 09 AUG 2008